

LAMAR UNIVERSITY-BEAUMONT



0 00 01 1022139 7

OFFICIAL GAZETTE

OF THE

DISCARDED

UNITED STATES PATENT OFFICE

VOLUME 300

JULY

1922

LIBRARY OF
CANADA STATE COLLEGE OF TECHNOLOGY

WASHINGTON
GOVERNMENT PRINTING OFFICE
1922



Digitized by the Internet Archive
in 2025

https://archive.org/details/bwb_T5-CFU-810

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 300—No. 1.

TUESDAY, JULY 4, 1922.

Price—\$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, \$5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

Page.

ISSUE OF JULY 4, 1922.....	1
ADHESION OF THE GRAND DUCHY OF LUXEMBURG TO THE INTERNATIONAL CONVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY.....	1
INTERFERENCE NOTICES.....	1
APPLICATIONS UNDER EXAMINATION.....	2
PATENTS GRANTED.....	3
REISSUES.....	145
DESIGNS.....	147
TRADE-MARKS PUBLISHED (283 APPLICATIONS).....	155
TRADE-MARK REGISTRATIONS GRANTED.....	193
TRADE-MARK REGISTRATIONS RENEWED.....	196
LABELS.....	197
PRINTS.....	199
DECISIONS OF THE U. S. COURTS—	
<i>Ex parte Dunbar</i>	201
<i>Eldred v. Fink and Yupck. Yupck v. Eldred and Fink</i>	201
PATENT SUITS.....	202
ADVERSE DECISIONS IN INTERFERENCE.....	203
CHANGES IN CLASSIFICATION.....	203

Issue of July 4, 1922.

Patents.....	710—No. 1,421,357 to No. 1,422,066, inclusive.
Designs.....	40—No. 61,146 to No. 61,185, inclusive.
Trade-Marks.....	25—No. 156,580 to No. 156,604, inclusive.
Labels.....	82—No. 24,612 to No. 24,693, inclusive.
Prints.....	14—No. 6,195 to No. 6,208, inclusive.
Reissues.....	8—No. 15,395 to No. 15,402, inclusive.
T. M. Renewals.....	10
Total.....	889

Adhesion of the Grand Duchy of Luxemburg to the International Convention for the Protection of Industrial Property.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 27, 1922.

The following communication, referred to this Office by the Secretary of the Interior, is published for the information of those concerned.

WM. A. KINNAN,
Acting Commissioner.

[Translation.]

LEGATION OF SWITZERLAND,
Washington, D. C., June 16, 1922.

Mr. Secretary of State:

On my Government's request, I have the honor to inform Your Excellency that by note dated May 12, 1922, the Legation of Luxemburg at Berne notified the Swiss Federal Council that the Government of the Grand Duchy of Luxemburg decided to adhere to the International Convention for the Protection of Industrial Property revised at Brussels on December 14, 1900, and at Washington, June 2, 1911, with its final protocol. (See article 18 of the Convention.)

In compliance with article 16, paragraph 3, of the Convention of Union of Paris as revised, that adhesion will take effect one month after the issuing of this notice, that is to say, on and after June 30, 1922.

I beg Your Excellency kindly to take note of this adhesion, and take this opportunity to renew to you, etc.

In the name of the Swiss Federal Council:

MARC PETER,
Minister of Switzerland.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

Conn and Moran, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Conn and Moran, of 324½ South Hill Street, Los Angeles, Calif., and an application of Pasquale Beneduce, of 326 Monroe Street, Hoboken, N. J., for patent, and the Office having failed to secure proof of service upon Conn and Moran at their address of record, or upon Pottenger and Pottenger, of 427 Western Mutual Life Building, Los Angeles, Calif., the parties who filed said Conn and Moran's application, notice is hereby given that unless Conn and Moran, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 13, 1922.

William H. Starbuck, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Hirschberg Paint Co., 106 to 110 West Pratt Street, Baltimore, Md., for registration of a trade-mark and trade mark registered April 7, 1903, No. 40,058, to William H. Starbuck, 404 Broome Street, New York, N. Y., and a notice of such declaration sent by registered mail to said William H. Starbuck at the said address having been returned by the post office undeliverable, notice is hereby given that unless said William H. Starbuck, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Assistant Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 21, 1922.

Leslie & Welsh, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Flora W. Pinkus, of 93 Third Avenue, New York, for registration of a trade-mark and trade-mark registered November 6, 1894, No. 25,463, to Leslie & Welsh, 297 Main Street, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said Leslie & Welsh at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Leslie & Welsh, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

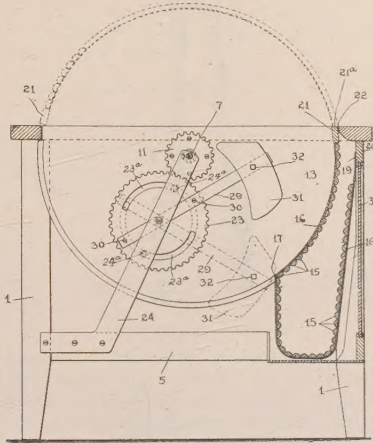
Condition of Applications Under Examination at Close of Business June 24, 1922.

Room No.	Divisions, Examiners, and subjects of Inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended	
	(Total number of applications waiting action, excluding Trade-Mark division, 67,490; Trade-Mark division, 8,644. Oldest new case, Mar. 31; oldest amended, Mar. 23, 1921. The dates given are 1921 except where * indicates 1922.)			
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 28	Dec. 14	917
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	June 29	July 5	1,921
175	3. RICH, W. M. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Aug. 19	929
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 16	*Apr. 5	1,484
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Typing Cords or Strands.	Sept. 19	Sept. 30	1,106
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 24	*Feb. 11	1,267
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Sept. 15	Nov. 7	2,381
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 15	*Mar. 28	873
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 2	*Apr. 8	1,135
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 12	*Mar. 18	1,165
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Jan. 16	*Feb. 23	635
322	12. PIERCE, P. P., Machine Elements.	Nov. 10	*Jan. 17	1,287
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 6	*Feb. 17	1,880
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16	960
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 8	Aug. 13	2,038
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	June 29	July 14	2,321
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 20	*Jan. 3	1,362
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansive Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	May 5	2,416
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidistats.	June 2	Sept. 3	1,292
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Jan. 5	Dec. 23	1,603
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	July 26	Dec. 28	901
249	22. CLEVELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Oct. 21	*Mar. 6	480
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	May 13	Oct. 27	789
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines.	Aug. 23	*Jan. 20	1,189
315	25. LIGHTFOOT, J. E., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 5	*Apr. 5	437
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants.	Sept. 12	Dec. 14	1,046
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 10	Sept. 12	1,971
225	28. BENSON, A. R., Internal-Combustion Engines.	Oct. 7	Aug. 24	1,704
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Pool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Sept. 20	*Apr. 14	644
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Typewriting Machines.	*Jan. 3	*Apr. 1	1,410
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 22	Aug. 17	2,142
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Aug. 12	*Mar. 6	1,004
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 12	*Jan. 9	928
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 15	*Mar. 14	563
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Feb. 13	*Apr. 6	845
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Jan. 16	*Jan. 6	1,781
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Aug. 6	Aug. 2	1,908
378	38. DE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 19	Oct. 20	1,771
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 9	May 19	2,258
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	June 29	Oct. 5	2,915
125	41. BROWN, J. L., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	*Feb. 1	*Jan. 6	763
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	July 21	June 27	1,977
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	July 28	Sept. 22	1,889
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 8	*Apr. 1	514
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Nov. 16	*Jan. 5	1,257
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds. Analogous Systems.	Oct. 10	Dec. 5	1,332
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Aug. 18	*Jan. 23	1,286
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications.	Mar. 31	Mar. 23	2,814
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks.			
	Designs.	Sept. 12	*Jan. 30	5,843
	Labels and Prints.	Oct. 24	*Jan. 30	2,625
		*June 2	*June 12	176

PATENTS

GRANTED JULY 4, 1922.

1,421,357. FLAT-TOP ROLL-COVER DESK. ROBERT H. ALLWORK, New York, N. Y. Filed Oct. 24, 1921. Serial No. 509,944. 5 Claims. (Cl. 45—92.)



1. The combination, with a flat top desk, whose top is provided with slots near each side edge and a rear slot, of a shaft journaled below the desk top, segmental walls respectively operable through the side slots and carried by the shaft, the segments each exceeding a half circle, and a flexible apron secured at one end to the segmental walls, the apron adapted to be drawn through the rear slot and over the segmental walls in their rotation, to cover the desk top.

1,421,358. COMBINATION SCRAPER, CHARGER, AND TAMPER. THOMAS J. AVERY, Albia, Iowa. Filed July 15, 1921. Serial No. 484,975. 2 Claims. (Cl. 86—21.)

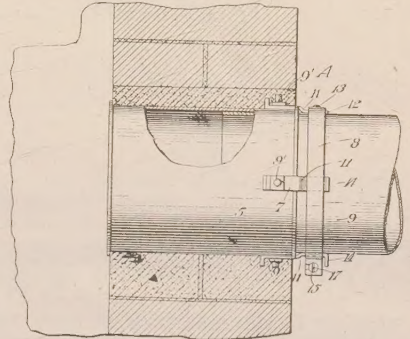


1. In a device of the character described, a tubular charge receiving member of uniform outside diameter for its entire length, a coupling ring secured to the charge receiving member at one end of and in axial alignment with the latter, said coupling ring having an outside diameter substantially equal to that of the charge receiving member, an inside diameter less than that of the charge receiving member, and being formed with a pair of inwardly offset arms, a second tubular member, a second coupling member carried at one end of the second tubular member and pivotally supported between the arms of the first named coupling member, a rod slidably disposed in the second named tubular member, and a plunger slidably disposed in the charge receiving member and provided with a shank pivoted at its end to the adjacent end of the said slidable rod.

1,421,359. COMBINED THIMBLE AND STOVEPIPE HOLDER. STEVENSON E. BARR, Tacoma, Wash. Filed Aug. 15, 1921. Serial No. 492,572. 1 Claim. (Cl. 126—318.)

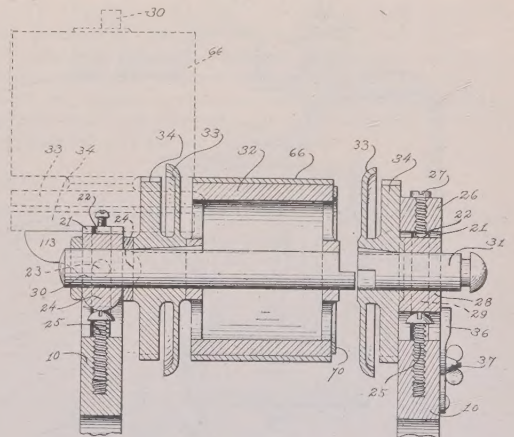
A device of the class described comprising a flue thimble, a plurality of strips secured exteriorly of said

thimble, a split clamping band secured to one of said strips and disposed in embracing relation to the other of said strips, said band being terminally provided with a pair of depending lips, one of which has a U-shaped slot opening out the rear edge of the lip, the other of said



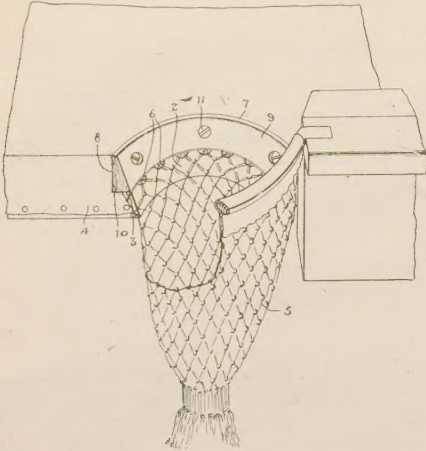
lips being bent upon itself to provide a space, a nut located in said space, and a fastening device seated within the slot of the first mentioned lip and passing through the nut and the opposite lip, substantially as and for the purpose specified.

1,421,360. ROTARY PHOTOGRAVURE PRESS. HARVEY V. BIERY, Oklahoma, Okla. Filed Apr. 2, 1919. Serial No. 286,948. 10 Claims. (Cl. 101—378.)



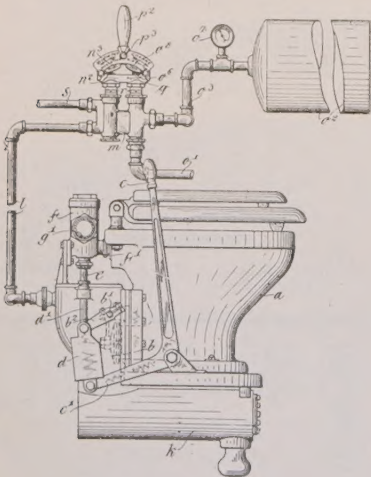
1. In a rotary photogravure press, the combination with a frame, of a mandrel mounted for rotation in the frame and pivoted at one end therein, a printing cylinder removably mounted on the mandrel and adapted to be introduced upon and removed from the free end of the mandrel when swung upon said pivot, means for securing the mandrel at its free end in the frame, and means for retaining the cylinder upon the mandrel.

1,421,361. GUARD FOR BILLIARD-TABLE POCKETS. EDWARD H. ACLAND, Toronto, Ontario, Canada. Filed Aug. 25, 1920. Serial No. 405,898. 2 Claims. (Cl. 46—12.)



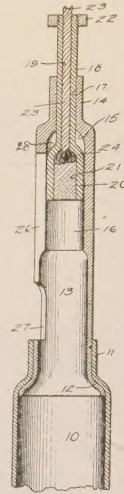
1. In a billiard table, the combination with the table bed having a curved pocket recess and the table cover, the edge of which is drawn into said recess, of a rigid guard curved to fit into said recess to clamp the cover in place and adapted to rest on the bottom of said recess and to extend upwardly substantially to the level of the table top to protect the cover around the edge of the pocket recess from the impact of balls rebounding from the pocket.

1,421,362. MARINE CLOSET. PERCY ALLAN, Montclair, N. J., assignor to A. B. Sands & Son Co., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1919. Serial No. 315,397. 8 Claims. (Cl. 4—17.)



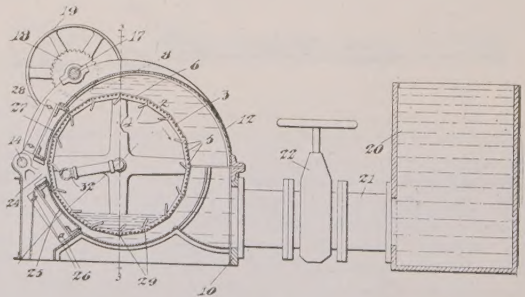
6. In a marine closet, a bowl, a waste tank communicating therewith, means to flush the contents of the bowl into the tank, an air tank in communication with the waste tank, a valve to control the supply of air from the air tank to the waste tank, and an air vent from the waste tank to relieve the pressure therein automatically when the control valve is seated.

1,421,363. BAILER STRUCTURE. FRANCIS B. ALLDREDGE, Des Moines, Iowa. Filed Aug. 10, 1920. Serial No. 402,612. 1 Claim. (Cl. 166—19.)



In a bailer structure, a bailer can, a reduced extended, tubular, swivel socket, having at its upper end a reduced elongated neck, having on its interior a substantially semi-spherical shoulder, said swivel socket, having in its wall, an elongated slot, having a large position at its lower end, a rope lift comprising a tubular member slidably mounted in said neck, a stopping element detachably mounted on the upper end of said tubular member, and an enlarged hollow portion on the lower end of said tubular member, having an exterior shoulder to coast with said first shoulder, and a flexible member mounted in said rope lift.

1,421,364. PULP-THICKENING MACHINE. CARLTON H. ALLEN, Millinocket, Me., assignor of one-half to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed May 28, 1920. Serial No. 384,942. 15 Claims. (Cl. 92—36.)

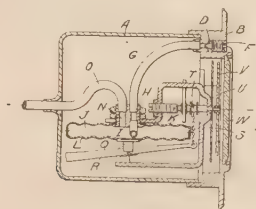


1. A pulp thickening apparatus comprising, in combination, a filtering drum, means for driving said drum, and a reservoir in which said drum may be submerged in pulp, said reservoir having an opening at one side of said drum for the discharge of thickened pulp.

1,421,365. LIQUID-LEVEL GAUGE. IVAN ANDERSSON, East Elmhurst, N. Y. Filed Mar. 13, 1920. Serial No. 365,676. 4 Claims. (Cl. 73—54.)

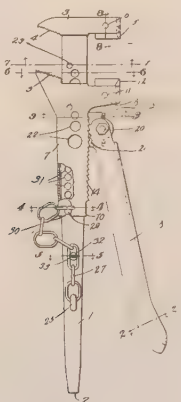
1. In a gauge, the combination of a diaphragm chamber, an outer support and means to support the dia-

phragm chamber from the outer support, such means including a liquid inlet tube communicating with the in-



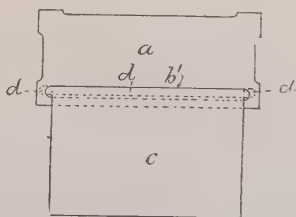
terior of the diaphragm chamber and an air outlet tube also communicating with the interior of the diaphragm chamber at its upper part.

1,421,366. WRENCH. PETER F. ANDERSON, Prentice, Wis., assignor of one-half to Peter S. Lound, Prentice, Wis. Filed Sept. 1, 1921. Serial No. 497,458. 4 Claims. (Cl. 81—86.)



1. A tool of the class described, comprising a shank having a fixed jaw; a rider mounted to reciprocate on the shank and having a rack, the rider including a loop-shaped jaw within which the shank is located; a filler in the jaw of the rider and located between one end of said jaw and the shank; a cutter on the jaw of the rider and cooperating with the fixed jaw; a securing element connecting both the cutter and the filler to the jaw of the rider; and a lever fulcrumed on the shank and engaged with the rack of the rider.

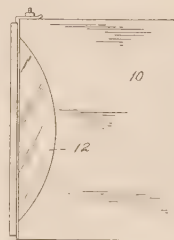
1,421,367. SHOWCARD, CALENDAR, AND THE LIKE. WILLIAM JOSEPH ANDERSON, Hyde, England. Filed May 19, 1919. Serial No. 298,321. 1 Claim. (Cl. 40—128.)



A show device comprising a head piece portion having at slot approximately the length thereof leaving comparatively narrow portions that may be fixed more readily than other portions of said head piece, a perishable apron-like refill portion having an upper edge of a length less than the length of the head piece slot and adapted to be supported entirely and wholly in the same plane as that of said head piece, and a lath secured to the front face of said apron-like portion at the upper end

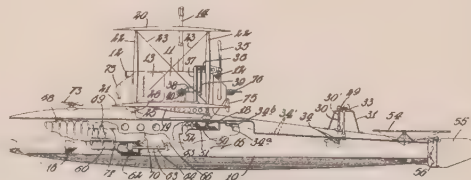
thereof and of a greater length than said apron-like portion so that the lath ends may extend into the slot of said head piece portion and support said apron-like portion.

1,421,368. DIRIGIBLE HEADLIGHT FOR LOCOMOTIVES. GEORGE H. ANTHONY, Sykesville, Pa. Filed Oct. 1, 1921. Serial No. 504,730. 3 Claims. (Cl. 240—62.)



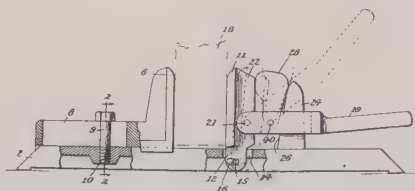
1. A dirigible headlight for locomotives comprising a casing, a reflector pivotally mounted therein for swinging movement on a vertical axis, a supporting frame carried by and extending forwardly within the reflector, and a pendulum supported from the top of the casing and having its weight confined within said frame.

1,421,369. SUBMERSIBLE FLYING BOAT. JOSEPH ARDO, Newhall, W. Va., assignor of one-half to Kallman Horvath, Newhall, W. Va. Filed Oct. 28, 1921. Serial No. 511,144. 5 Claims. (Cl. 244—2.)



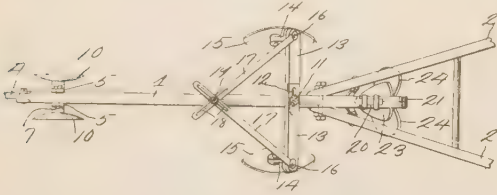
1. In a submersible vessel, a hull, a series of cylinders opening at one end through said hull, pistons in said cylinders, means for locking said pistons in different adjusted positions against inward movement in said cylinders said means permitting free outward movement of the pistons in the cylinders, and other means for moving said pistons outward in said cylinders.

1,421,370. BENCH AND FLOOR CLAMP. THOMAS ASHWORTH, Millersburg, Ohio. Filed Sept. 16, 1921. Serial No. 501,141. 1 Claim. (Cl. 144—303.)



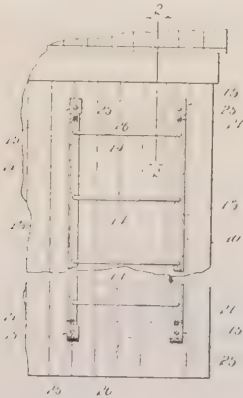
In an adjustable wood working clamp, a bed plate, a main stationary jaw, a pivoted and longitudinally movable supplemental jaw, an operating lever pivoted on said supplemental jaw, a fulcrum post fixed on said bed plate, and a wedge carried by said lever intermediate said supplemental jaw and said fulcrum post, whereby said lever is depressed, the wedge will engage said fulcrum post and said supplemental jaw and cause the latter to be moved toward the main jaw.

1,421,371. DISK PLOW. SIDENEY CICERO ATTAWAY, Thomasville, Ga. Filed Sept. 2, 1921. Serial No. 497,831. 3 Claims. (Cl. 55—9.)



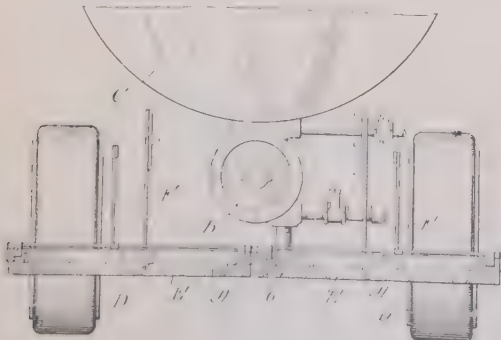
3. A combined vine cutting, row barring and potato digging plow, said plow comprising a beam, spaced vine cutting disks adjacent the forward end of said beam, row barring spaced disks disposed rearwardly of the vine cutting disks and a plowing element disposed rearwardly of the row barring disks

1,421,372. LADDER CONSTRUCTION. LE ROY H. BADGER, Oak Park, Ill., assignor to De Remer Blatchford Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 6, 1920. Serial No. 422,179. 15 Claims. (Cl. 228—49.)



2. A ladder construction for railway cars comprising, in combination, a ladder and ladder supporting means on which the ladder has a slidable anchorage permitting it to be separated therefrom when bent laterally.

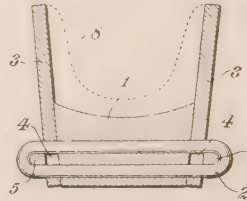
1,421,373. LIQUID-DISTRIBUTOR DISCHARGE MECHANISM. FREDERIC E. BAGER, Kenosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Filed Feb. 17, 1917. Serial No. 149,211. 12 Claims. (Cl. 299—34.)



1. A liquid-distributor discharge-mechanism comprising outlet-means to form a jet, a movable deflector disposed

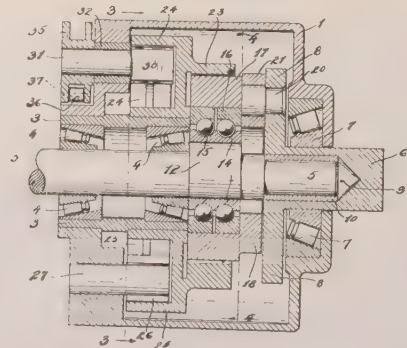
in position to receive the discharge from said outlet-means and formed to direct the liquid downward in a flat fan-shaped spray, and valve-means mounted on said deflector and arranged to cooperate with said outlet-means to so control the discharge that the size of the jet may be varied without materially changing its point of impingement on said deflector.

1,421,374. TROUGH. ROBERT A. BAGNELL, St. Louis, Mo. Filed Sept. 11, 1920. Serial No. 409,563. 6 Claims. (Cl. 266—38.)



1. A trough for conducting molten metal, comprising, a base, a pair of detachable side members, and means for connecting said base and said members.

1,421,375. TRANSMISSION. HENRY C. BAINES, East Cleveland, Ohio, assignor to The Baines Engineering Company, Canal Dover, Ohio, a Corporation of Ohio. Filed Feb. 28, 1920. Serial No. 362,060. 3 Claims. (Cl. 74—35.)

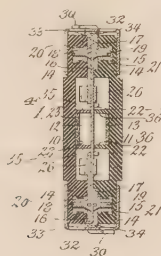


1. In a device of the character described, the combination with a casing, of a sleeve projecting inwardly within said casing, a shaft journaled in said sleeve, an external gear eccentrically journaled on said shaft, an internal gear rotatably mounted on said sleeve and disposed in operative relation to said external gear, means adapted to connect said internal gear with said casing to prevent rotation thereof, a second shaft journaled in said casing and means for connecting said second shaft to said external gear whereby power may be transmitted between said shafts.

1,421,376. FUSE. HOWARD H. BAKER, Buffalo, N. Y., assignor to United States Fuse Corporation, Buffalo, N. Y., a Corporation of New York. Filed Apr. 30, 1919. Serial No. 293,705. 6 Claims. (Cl. 200—131.)

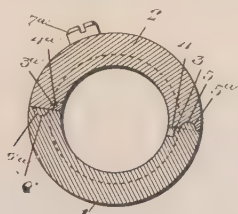
1. A fuse comprising a body having two body sections of insulating material which engage each other by a longitudinal joint between the same and which are provided on their opposing central parts with cavities forming a chamber, terminals mounted on the ends of said body and having parts arranged on the exterior and the interior of said body, a fuse link arranged within said chamber and engaging its opposite ends with the inner parts of said terminals, and clips for connecting said link with said

terminals, each of said clips being of substantially U form and engaging its legs with the outer sides of one end of said link and the corresponding terminal and that



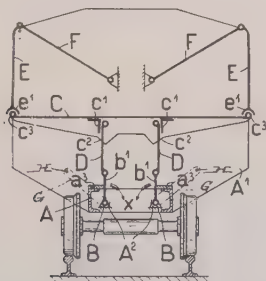
leg which engages with said link being provided with a laterally projecting lug which engages with the adjacent wall of said chamber.

1,421,377. SPLIT LOOSE PULLEY BUSHING. THOMAS F. BARRY, Muscatine, Iowa, assignor to Barry Company, Muscatine, Iowa, a Corporation of Ohio. Filed Jan. 27, 1920. Serial No. 354,451. 8 Claims. (Cl. 64—10.)



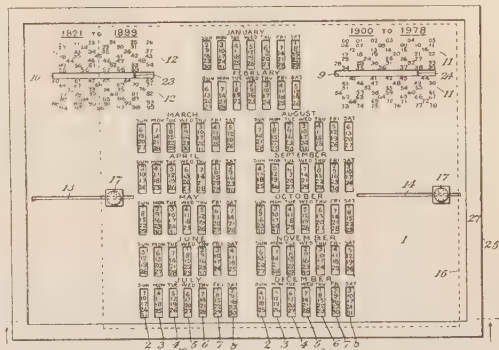
1. A split bushing for pulleys, comprising opposite similar complementary interchangeable sections each having one inner meeting edge smooth and having in its other meeting edge a longitudinal channel to receive a packing; the packing on one section contacting with the smooth meeting edge of the opposed section when the parts are assembled, whereby leakage of the oil between the meeting faces of such sections is prevented by such packings.

1,421,378. SELF-DISCHARGING CAR. KARL BARTH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Jan. 14, 1921. Serial No. 437,325. 2 Claims. (Cl. 105—260.)



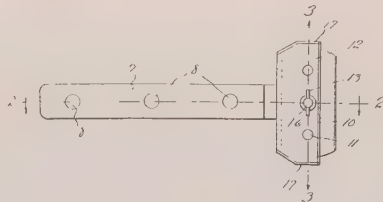
1. A self discharging receptacle comprising a rotatably disposed bottom, a frame structure, said bottom articulated to said frame structure by means of link devices, the elements of which devices when said receptacle is in loaded position are substantially parallel each to each to form a substantially linear support for said bottom, and abutments for said link devices permitting a collapsing action of said link devices only toward the longitudinal center line of said receptacle.

1,421,379. CALENDAR. SAMUEL O. BARTLETT, New York, N. Y. Filed Feb. 11, 1921. Serial No. 444,086. 2 Claims. (Cl. 40—109.)



1. The combination, in a multi-year calendar, of a mat, provided with monthly groups of day-index slots, a group of year indicating numbers, a year index slot, and guide strips, and a relatively movable, cooperating number-sheet, provided with guide slots adapted to register with said guide strips, series of day numbers, adapted to register behind the day-index slots, and with a year indicator adapted to register behind the year-index slot.

1,421,380. SCRAPER. HENRY BAUM, East Cleveland, Ohio. Filed Feb. 13, 1922. Serial No. 536,081. 1 Claim. (Cl. 145—47.)

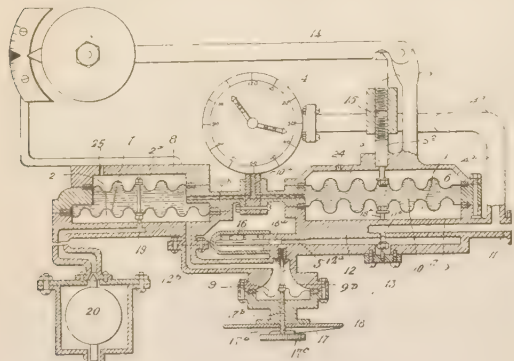


A scraper comprising a handle including a metal plate extending and expanded laterally beyond the front end of the handle and in a plane parallel thereto, the ends of said expanded part of the plate being flanged to form a seat, said seat having projecting spaced lugs, a blade resting on said seat and having holes into which the lugs project, and a cap plate clamped upon the blade and engaged by said lugs and fitting between said flanges.

1,421,381. MEANS FOR REGULATING THE FLOW OF COMPRESSED GASES. ALFRED EDWIN BAWTREE, Sutton, England, assignor of one-half to Arthur Samuel Legg, Thornton Heath, England. Filed Mar. 8, 1918. Serial No. 221,313. 6 Claims. (Cl. 50—11.)

1. Valve mechanism for regulating the flow of compressed gases, comprising a casing, two pairs of diaphragms within said casing, a continuous system of non-elastic fluid between said diaphragms, means for providing pressure on the upper diaphragm of the first pair of diaphragms, a valve controlled by the under dia-

phragm of the first pair of diaphragms for admitting gas to said under diaphragm, and a valve controlled by the



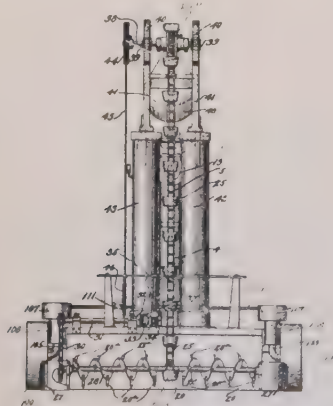
second pair of diaphragms for opening the outlet from the gas chamber beneath the under diaphragm of said second pair of diaphragms.

1,421,382. ELECTRIC-LIGHT FIXTURE. RICHARD M. BEARD, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,148. 2 Claims. (Cl. 240-92.)



1. In an electric lighting fixture, a relatively broad plaster composition reflector having a depending neck portion, a protecting and reinforcing band carried by the reflector at its periphery, means for supporting the reflector solely at the neck portion, and depending enclosing means supported entirely from the band.

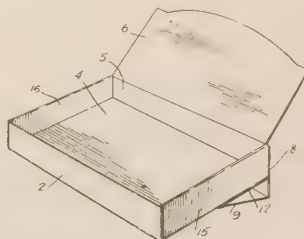
1,421,383. SAND GATHERING AND ELEVATING MACHINE. ELMER O. BEARDSLEY, Chicago, and WALTER F. PIPER, Oak Park, Ill. Original application filed June 22, 1917, Serial No. 176,354. Patent No. 135,641. Divided and this application filed Jan. 30, 1919. Serial No. 274,096. 9 Claims. (Cl. 37-27.)



9. In a foundry machine of the class described, the combination of a truck, means for propping the truck

into a pile of sand, sand-gathering means comprising a conveyor formed of a helical blade provided with a periphery formed to continuously feed the sand transversely, and an elevator for conveying the sand from the screw, and means for rotating the screw and driving elevator, the screw being equipped with blades projecting radially from its periphery so as to break up the sand engaged thereby.

1,421,384. DISPLAY CONTAINER. HENRY B. BEATTY, Brooklyn, and CLARE LE ROY JOHNSON, New York, N. Y., assignors to Laplante & Dunklin Printing Company, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1921. Serial No. 464,573. 5 Claims. (Cl. 206-44.)



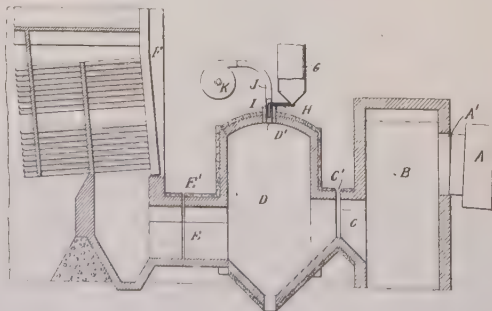
1. A display package consisting of a single foldable blank comprising sides, a bottom portion; an outer front portion, an inner front portion, an inner bottom portion, an inner back portion, and a display tab extending in the order named from the forward side of the bottom portion; an outer back portion, an outer top portion, an outer tab, an inner tab, and an inner top portion extending in the order named from the back of the bottom portion.

1,421,385. ROPE CLAMP. CHARLES BEECKEN, New York, N. Y. Filed Apr. 4, 1921. Serial No. 458,503. 3 Claims. (Cl. 24-132.)



3. A rope clamp including a pair of jaws having grooves on their inner faces, ears upon one jaw embracing the other, a pin entering said ears and jaw to pivot the jaws for relative movement, and slidable means to bind the jaws together.

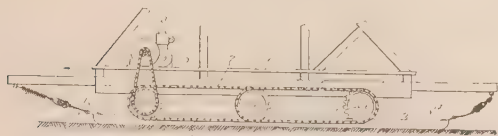
1,421,386. METHOD OF UTILIZING WASTE-HEAT GASES OF CEMENT KILNS. JOHN E. BELL, Brooklyn, N. Y. Filed Sept. 26, 1919. Serial No. 326,650. 2 Claims. (Cl. 110-28.)



1. In the operation of a plant comprising a cement kiln, a waste heat flue leading therefrom and an element for

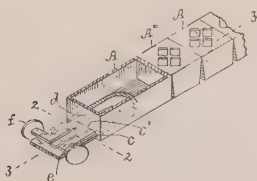
the utilization of the heat of the gases connected to said flue and so operated that the waste heat gases collected in the flue contain a considerable amount of free oxygen, the method of increasing the temperature and heat efficiency of the gases in the waste heat flue and utilizing element with small increase in the weight thereof which consists in feeding finely divided fuel into the flue in quantity proportioned to the amount of free oxygen in the waste heat gases contained in the flue and so as to utilize said free oxygen to combine with the fuel and raise the temperature of the whole body of gas.

1,421,387. SELF-SHIFTING TRACK. HANS J. BENTSON, Winthrop Harbor, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed May 31, 1919. Serial No. 300,820. 11 Claims. (Cl. 180—9.)



1. The combination of a body provided with segmental wheels, tracks resting on the ground to support said wheels, means for causing forward movement of said body, so that the wheels will roll along upon said tracks, said wheels being adapted to shift the load weight alternately from one track to the other, so that the tracks are alternately relieved of weight and thereby released, and instrumentalities dependent upon the forward motion of the body and operated thereby to automatically and alternately pull the tracks directly forward along the ground.

1,421,388. JEWELRY COUPLING. ACHILLE BIPPART, East Orange, N. J. Filed July 23, 1921. Serial No. 487,055. 3 Claims. (Cl. 24—230.)

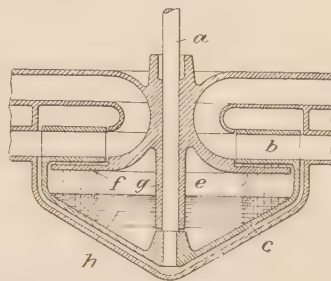


1. A jewelry coupler having a socket member and a catch-member, the socket-member having an opening at one end with shoulder therein, and the catch-member provided with a tongue fitted snugly to the opposite edges of such opening, two latch-bars connected at their inner ends and fastened upon the upper flat side of the tongue, one at least of the latch-bars having a notch to engage the shoulder upon the socket-opening, thumb-pieces for pressing the latch-bars toward one another upon the flat side of the tongue, and the latch-bars operating normally to hold the notch upon the shoulder when the latch-bars are not pressed together.

1,421,389. DEVICE FOR PREVENTING THE PENETRATION OF AIR INTO CENTRIFUGAL PUMPS. BERNHARD BISCHOF, Geneva, Switzerland. Filed May 7, 1921. Serial No. 467,535. 4 Claims. (Cl. 253—194.)

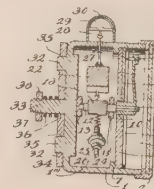
1. In a device for preventing the penetration of air into

centrifugal pumps, a centrifugal wheel, a carrier plate for said centrifugal wheel, a stationary disc, a hollow cham-



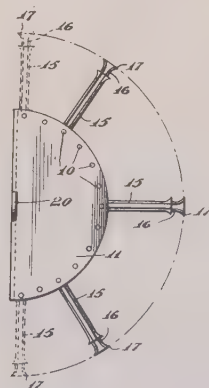
ber formed by said carrier plate and said stationary disc, a sealing liquid arranged in said chamber.

1,421,390. SPEED-INDICATING DEVICE. JOSE VIDAL BOSQUE and PANTALEON GIRO Y CASAÑAS, Habana, Cuba. Filed Oct. 14, 1921. Serial No. 507,671. 4 Claims. (Cl. 234—31.)



1. A speed indicating device comprising a casing having a glass lid to look therethrough; sealing closing means between the casing and its lid; a heavy member pivotally and eccentrically mounted in the casing and operated by the action of centrifugal force when the casing is caused to gyrate around an exterior point, said heavy member having a resilient connection at one end and at its opposite end a transmission with a shaft arranged gyratorily and centrally through the casing; an arm fixed to said shaft which carries a marking member adapted to impress a permanent mark or signal on a scale graduated for different speeds and means to set at will the heavy element inside the casing and means connecting an element producing an acoustic signal with the heavy member.

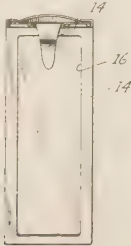
1,421,391. DISPLAY RACK FOR PHONOGRAPH DISKS. CHESTER ALMONDE BOWER, Castor, Canada. Filed Dec. 16, 1921. Serial No. 522,837. 1 Claim. (Cl. 211—18.)



A display rack for phonograph disks or records, comprising a plurality of rods, vertically disposed in semi-circular arrangement, a plurality of racks pivotally mounted on

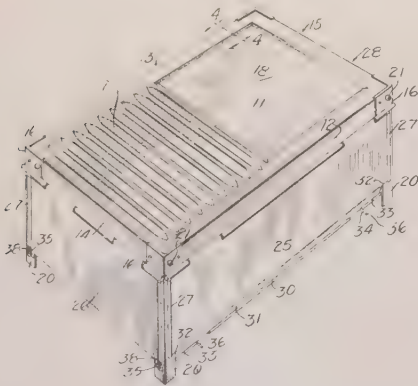
the rods, and each comprising a sleeve mounted on the rods, grooved arms carried by each sleeve, and slanting upwardly, the outer ends of the grooved arms being diverged outwardly, and spacing means between the sleeves.

1,421,392. COMBINATION COMB CASE. FRANK WM. BOWLER, Chicago, Ill. Filed Oct. 31, 1921. Serial No. 511,959. 3 Claims. (Cl. 132—85.)



1. An article of manufacture comprising a mirror, a sheet of material covering the back of said mirror, and a flexible sheet covering said first mentioned sheet, the edges of said mirror and sheet being fastened together by means of a U-shaped framework extending around the edges of said mirror and sheets, and a resilient securing clasp fixed to one end of said article and projecting outwardly and towards the central portion thereof.

1,421,393. CAMP STOVE. LOUIS M. BOYLE, Los Angeles, Calif. Filed July 2, 1921. Serial No. 482,014. 2 Claims. (Cl. 126—29.)

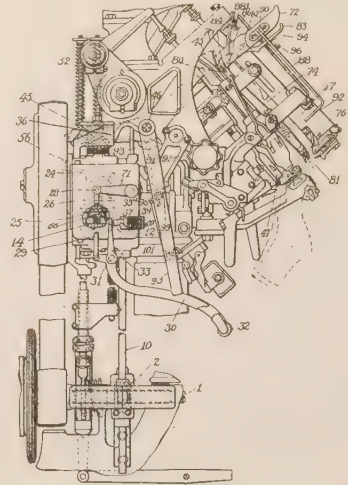


1. A camp stove comprising: a top member; legs foldably attached to said top member; aprons foldably attached to said top member; and latches mounted upon certain of said aprons adapted to engage said legs and other of said aprons adjacent thereto when said legs and said aprons are disposed in open position.

1,421,394. PULLING-OVER MACHINE. ELI BROTHERS, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 18, 1916. Serial No. 126,422. 52 Claims. (Cl. 12—4.)

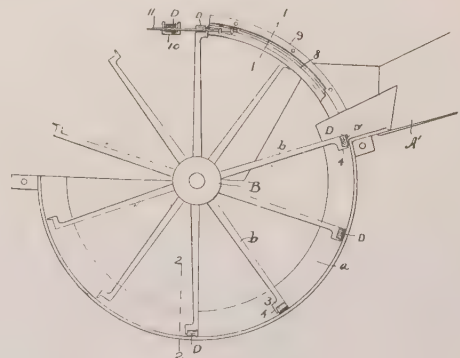
1. In a machine of the class described, a gripper lever, a gripper connected to said lever by means constructed to permit independent relative movement of the gripper and the lever, means for depressing the gripper to open its jaws

and permit insertion of the upper, means for reversely moving a part of the gripper for closing its jaws prior to starting the machine, and manually operative means ex-



tending into a position at the outer side of the gripper in proximity to the location of the shoe to enable the operator to cause said jaw closing movement of the gripper.

1,421,395. FEED WHEEL FOR SPOOL MACHINES. CHARLES S. BROWN, Bethel, Me. Filed Mar. 9, 1922. Serial No. 542,305. 4 Claims. (Cl. 142—20.)

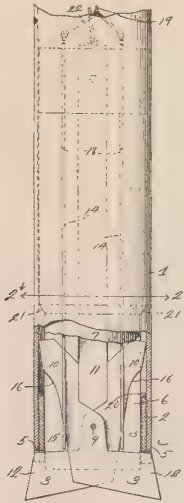


1. In a feeding device for feeding cylindrical blanks for spool and other like machines, the combination of a hopper for the blanks, a wheel rotating adjacent to said hopper and having radial arms passing through said hopper and terminating in radially open recesses closed in the rear of the arms for receiving the blanks, guides for holding the blanks in said recesses as the wheel turns, a feed spout for the spool machine and means for forcing the blanks laterally from said recesses into said feed spout.

1,421,396. OIL-WELL DRILL BIT. ROBERT J. BROWN, Merryville, La., assignor of one-half to J. F. Walden, Merryville, La. Filed July 26, 1921. Serial No. 487,648. 2 Claims. (Cl. 255—76.)

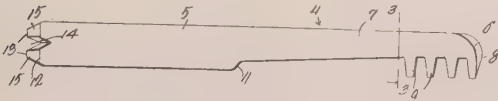
1. A well drilling device comprising a casing having diametrically disposed notches in the lower end thereof, a drill bit shank vertically movable in said casing and having its lower end provided with a bifurcation, crossed pivoted bit blades disposed in said bifurcation, said bit blades being provided with outwardly extending arms and upwardly

extending arms, a vertically movable locking pin carried by the bit shank and forming means for locking the upwardly extending arms against inward movement and the outwardly extending arms against downward movement,



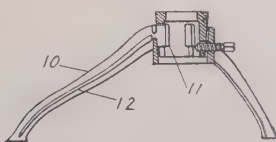
and trip bars vertically movable in the shank and having their lower ends positioned to cooperate with the upwardly extending arms of the bit blades for forcing said bit blades inwardly after the locking pin has been removed.

1,421,397. FOWL CLEANER. WILLIAM A. BRUCK, Pearl River, N. Y. Filed July 1, 1920. Serial No. 393,277. 2 Claims. (Cl. 17—30.)



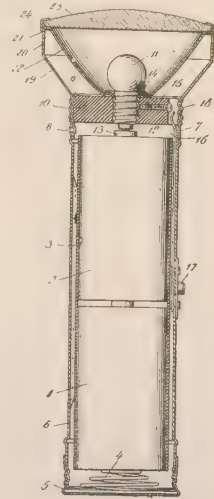
1. A fowl cleaning tool comprising an elongated relatively narrow blade having a plurality of teeth projecting from a longitudinal edge thereof adjacent its forward free transverse end, said transverse end being arranged at a substantially abrupt angle to the longitudinal axis of the blade, and said transverse end being sharpened into a cutting edge.

1,421,398. CHRISTMAS-TREE SUPPORT. CHARLES L. BURCHESSE, Lincoln, Nebr., assignor of one-half to H. M. Dirks, Lincoln, Nebr. Filed Dec. 27, 1921. Serial No. 524,935. 3 Claims. (Cl. 248—38.)



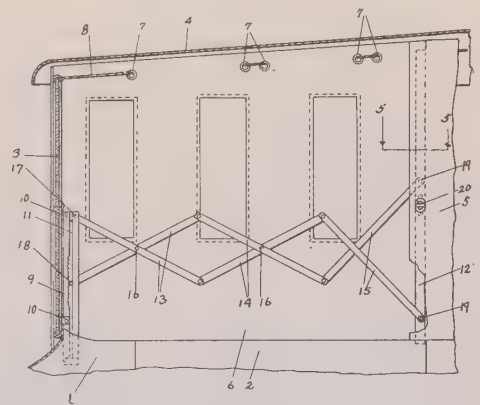
3. A support including a cylindrical collar having a vertical axis, a plurality of legs, said legs being anchored in said collar against movement in all directions but one, and a second collar adapted to be concentrically mounted on said first mentioned collar to prevent sliding of the legs in the remaining direction, said first and second named collars being welded together.

1,421,399. BATTERY HAND LAMP. CHARLES F. BURGESS, Madison, Wis., assignor to Burgess Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed May 14, 1920. Serial No. 381,245. 7 Claims. (Cl. 240—8.5.)



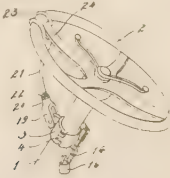
1. In a battery hand lamp, the combination of a casing, a battery of dry cells therein, a lamp connected with one terminal of said battery, a socket in which said lamp is threaded, a yielding disc of insulation supporting said socket, a reflector insulated from said socket and removable therefrom, and means for establishing electrical connection from the other terminal of said battery to said socket.

1,421,400. VEHICLE TOP CURTAIN. FRANK L. BURNS, Three Rivers, Mich. Filed Oct. 2, 1920. Serial No. 414,227. 4 Claims. (Cl. 296—138.)



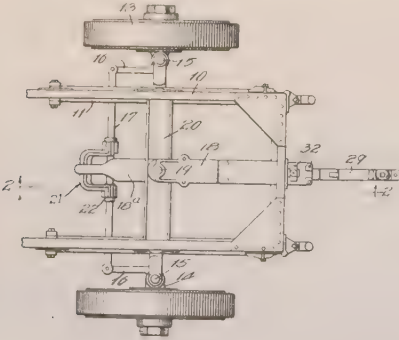
1. In a structure of the class described, the combination of a curtain having grommets at the upper edge thereof, a supporting wire carried by the top disposed through said grommets, a support for said curtain comprising a bracket member having a vertical slot therein, a bar to which the outer edge of the curtain is secured, and pairs of crossed links, one of the inner pair of links being pivoted to said bracket member and the other being slidably engaged in the slot thereof, the outer ends of the outer pair of links being pivoted to said bar, the inner and intermediate pairs of links being pivoted to each other, the outer pair of links being free from each other at their point of crossing and thereby permitting the collapsing of the lazy tong frame with the bar at the outer end thereof in upright position.

1,421,401. AUTO LOCK. BENJAMIN O. BYERS, Cleveland, Ohio, assignor of one-half to William St John, Cleveland, Ohio. Filed Feb. 19, 1920. Serial No. 359,866. 1 Claim. (Cl. 70—129.)



A device of the class described comprising a hinged sleeve adapted to engage the steering column of a vehicle, a yoke pivotally fastened to a free end of said sleeve, a projection formed on the other free end of said sleeve, means associated with said yoke and said projection for drawing said sleeve tightly about said column, an arm pivotally fastened to said sleeve and adapted to engage the steering wheel, to prevent rotation thereof, a shield adapted to cover said tightening means to prevent access thereto and means for locking said shield in position.

1,421,402. TRAILER TRUCK. ADDI BENJAMIN CADMAN, Beloit, Wis., assignor to Warner Manufacturing Company, South Beloit, Wis., a Corporation of Wisconsin. Filed Aug. 12, 1918. Serial No. 249,388. 4 Claims. (Cl. 280—33.5.)

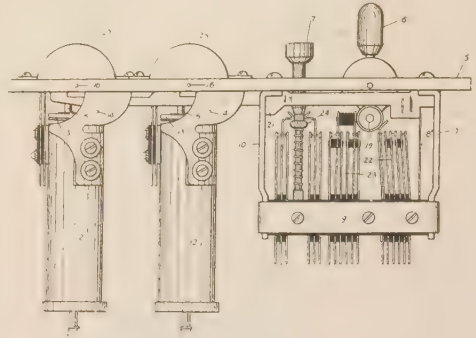


2. In a vehicle of the character described, a main frame, an axle having steering knuckles pivoted at its opposite ends, carrying wheels mounted on said steering knuckles, springs for supporting said frame upon said axle, a draw-bar pivotally connected to said frame, a transversely extending steering rod pivotally connected to said knuckles, a tubular member mounted on said steering rod to swing forward and back, and a pin having a universal connection with the rear end of said draw-bar and arranged to slide in said tubular member.

1,421,403. SWITCHBOARD SIGNAL. GUSTAF CARLSON, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 22, 1919. Serial No. 319,089. 17 Claims. (Cl. 179—176.)

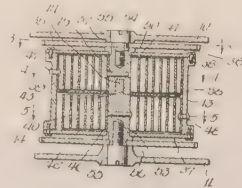
8. In combination, a key, an electromagnet and an armature adapted to be attracted thereby, a signal arranged to occupy either a displayed or a concealed position, means

carried by said armature for normally holding said signal in a concealed position, and a member slidably mounted



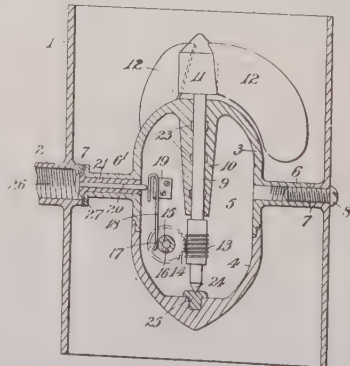
for moving said signal from a displayed to a concealed position, and means for operating said member.

1,421,404. MOTOR FOR TALKING MACHINES. FOREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1919. Serial No. 271,776. 15 Claims. (Cl. 185—45.)



1. In a spring motor, a spring barrel comprising a one-piece straight cylinder, a central support, a pair of springs in said cylinder, means for securing the outer ends of the springs to the cylinder, means for supporting the inner ends of the springs on said support, a one-piece head or end wall for each end of said cylinder, and means interposed between the two springs to divide the interior of said cylinder into two intercommunicating compartments, one for each spring, for housing and lubricating the springs thus separately inclosed, so that each of the two springs is wound and unwound in its own compartment.

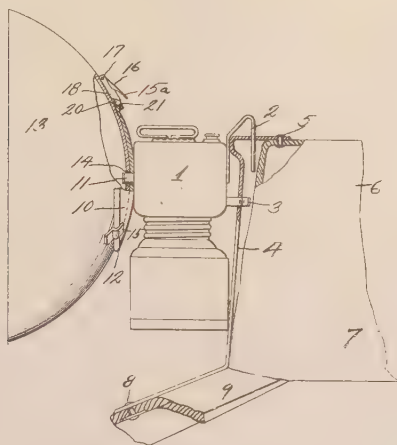
1,421,405. SHIP'S LOG. BASIL CHERNIKEEFF, London, England. Filed Dec. 9, 1921. Serial No. 521,212. 4 Claims. (Cl. 73—122.)



1. Mechanism comprising in combination a shaft, a rotator mounted thereon, a casing enclosing one end of

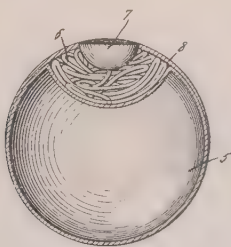
said shaft, radial arms on said casing, a tubular holder supported by said arms concentrically with said shaft, a tubular stem serving to support said holder submerged in water, means for electrically controlling a remote indicating and recording instrument and a lubricant filling for said casing.

1,421,406. LAMP. ALLEN J. CHRISTMAS, Rayville, La. Filed Oct. 19, 1921. Serial No. 508,748. 1 Claim. (Cl. 240—103.)



The combination with a concaved reflector having a burner extending axially therethrough, of a detachable enlarged concaved reflector disposed within the first mentioned reflector, said enlarged reflector being provided with spaced lugs on its rear side adapted to receive the marginal edge of the first mentioned reflector, a slidable lever controlled member carried by the rear side of the enlarged reflector and adapted to engage over the marginal edges of the first mentioned reflector and hold the same in close engagement with the spaced lugs carried by the enlarged reflector.

1,421,407. BALL. WARREN H. CLARK, West Burlington, N. Y. Filed July 25, 1921. Serial No. 487,298. 3 Claims. (Cl. 46—4.)

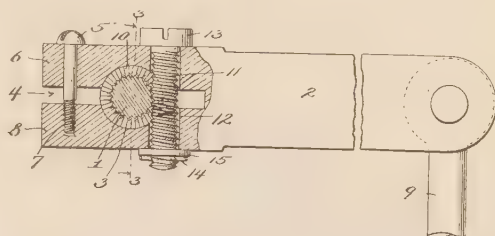


1. A hollow ball formed of resilient material, a semi-spherical member having an opening, and adapted to be positioned over the ball, a flexible member having connection with the ball and carrying a button, and said button adapted to be positioned in the opening of the semi-spherical member.

1,421,408. ADJUSTABLE CONNECTION FOR ACTUATING ARMS. LOUIS GREINER COLLYER, Upper Montclair, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Mar. 27, 1919. Serial No. 285,509. 5 Claims. (Cl. 74—5.)

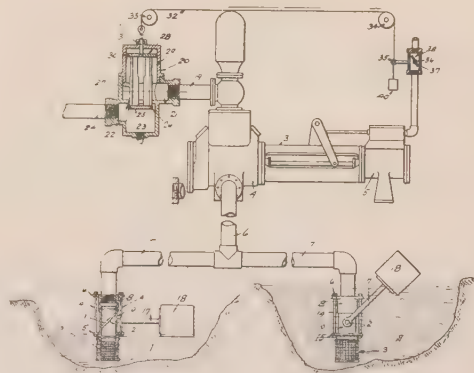
1. Means for adjusting and locking an arm or crank in different angular relation to a rotatable element, comprising an element provided with an annular series of

worm-wheel teeth, an arm or crank having a bore in which said element rotatably fits and carrying a worm which is rotatable but non-shiftable axially therein and



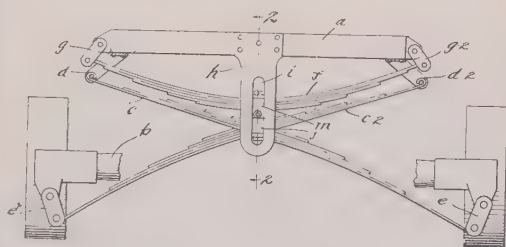
meshes with the worm-wheel teeth on said element and means operative independently of the worm to lock said element and arm in different adjusted relations.

1,421,409. PUMPING APPARATUS. RUDOLPH CONRADER, Erie, Pa. Filed Mar. 15, 1920. Serial No. 365,913. 8 Claims. (Cl. 103—92.)



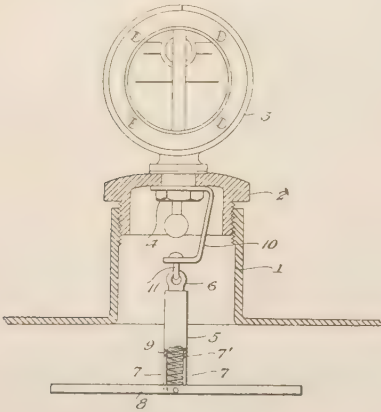
1. The combination of a pump; an inlet pipe leading to the pump; a valve on the inlet; a float controlling the valve; a discharge pipe for the pump; a motor driving the pump; devices controlling the motor; and means controlled by the volume of discharge from the pump for controlling the devices, said devices acting to reduce the energy of the motor as the discharge decreases.

1,421,410. VEHICLE SPRING. FRANK V. COOKE, Detroit, Mich. Filed June 30, 1920. Serial No. 392,940. 10 Claims. (Cl. 267—45.)



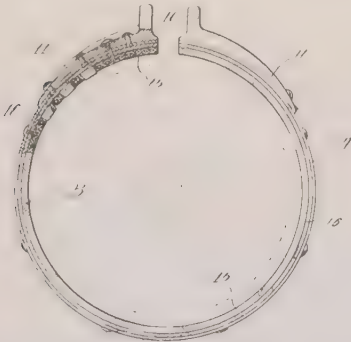
3. The combination of a vehicle body, an axle, a spring pivoted to one side of the body and to the end of the axle furthest therefrom, a spring pivoted to the other side of the body and the opposite end of the axle, a yielding fulcrum support intervening said body and springs, means for restraining movement of said springs laterally yet permitting movement longitudinally, and movement vertically against the resistance of said yielding fulcrum support.

- 1,421,411. INDICATOR LOCK. LESTER J. CORBITT, Detroit, Mich. Filed Aug. 9, 1920. Serial No. 402,097. 1 Claim. (Cl. 220-24.)



The combination with a radiator and its cap and an attachment carried by the cap, of means for permanently connecting the cap with the radiator while permitting its partial removal therefrom for filling purposes, such means consisting of a stem swiveled to a part on the cap, said stem having a bore in its lower end and a pair of diametrically arranged slots communicating with the bore, a cross rod passing through the slots and pivoted to the lower end of the stem and a spring in the bore engaging the rod for holding the same at right angles to the stem.

- 1,421,412. FRICTION LINING. HARVEY CORY and ORRIN D. GRAY, Chicago, Ill. Filed Apr. 20, 1920. Serial No. 375,289. 8 Claims. (Cl. 188-259.)

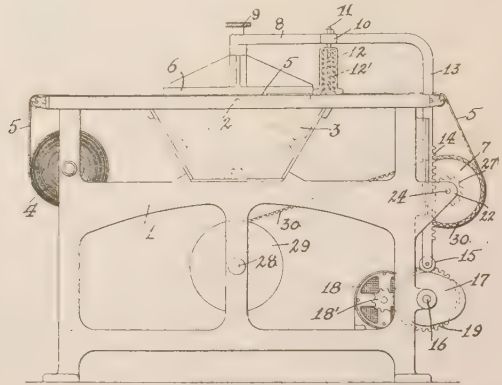


5. A duplex friction lining of the kind described having, in combination, a facing of wearing material and a backing of compressible absorptive material, the two materials being united, substantially as described.

- 1,421,413. PHOTOGRAPHIC-PRINTING MACHINE. MALCOLM L. COSSITT, Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev., a Corporation of Nevada. Filed July 21, 1921. Serial No. 486,644. 2 Claims. (Cl. 95-75.)

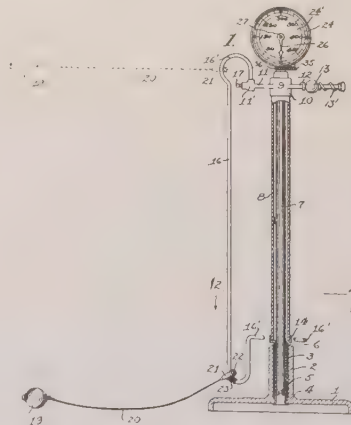
1. A photographic printing machine comprising a table having an exposure opening, means associated with the table for carrying a roll of sensitized paper, means for drawing the paper from the roll over the exposure opening, a light box associated with said opening; a reciprocative contact pad adapted to press the paper upon a

negative lying in the exposure opening and to withdraw therefrom; a driving means; and connections operated by said driving means for alternately simultaneously withdrawing the contact pad and advancing the paper, and simultaneously arresting the paper and returning the pad, said connections comprising a reciprocative bracket



carrying the contact pad, rack members associated with said bracket, pinions engaged by the rack members, cams operating on said rack members to lift the bracket; springs to return said bracket, and clutch members for intermittently transmitting motion to the paper drawing means.

- 1,421,414. CAPTIVE-BALL PRACTICE DEVICE. CHARLES FREDERICK CRAIG, San Francisco, Calif., assignor to Craig Golfmeter Co., Wilmington, Del., a Corporation of Delaware. Filed July 19, 1921. Serial No. 485,806. 8 Claims. (Cl. 265-22.)

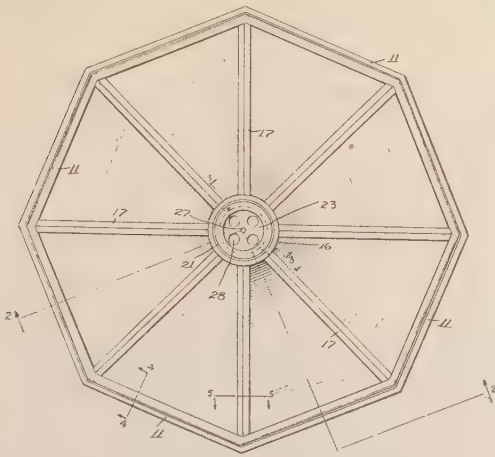


1. A device of the class described, comprising a fixed standard; a sleeve adapted to revolve about said standard; a register member carried by the top of the standard above the sleeve; a rotatable shaft carried by the register member; a gear on top of the sleeve; a gear on the lower end of the shaft engaging with the sleeve gear; and means for operating the register-member from the upper end of said shaft.

- 1,421,415. LAMP SHADE. JOSEPH M. CRUCET, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,316. 4 Claims. (Cl. 240-108.)

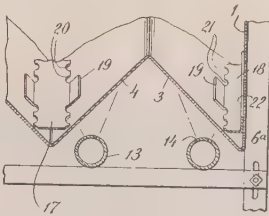
1. A lamp shade comprising a continuous outer rim; a center ring, said ring having a series of bottom opening

recesses; a plurality of radial ribs structurally connected with said rim, the inner ends of said ribs being disposed



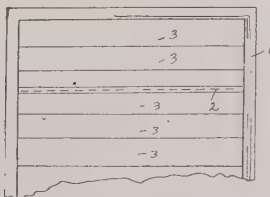
in the recesses in said ring; and a housing member permanently attached to said ring to cover the inner and lower surfaces thereof.

1,421,416. PROCESS AND APPARATUS FOR MELTING SULPHUR. HAROLD S. DAVIS and RAYMOND F. BACON, Pittsburgh, Pa., assignors to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Aug. 13, 1921. Serial No. 491,914. 9 Claims. (Cl. 23—1.)



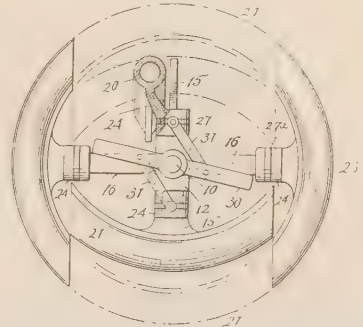
1. The process of melting sulphur, which comprises providing a surface heated to the melting temperature of the sulphur, progressively feeding the solid sulphur against said surface in such manner that only that portion of the sulphur at the said surface is heated to the melting point of the sulphur, and removing the melted sulphur as it forms.

1,421,417. PERFORATOR FOR PRINTING PRESSES. DANIEL J. DEEGAN, Youngstown, Ohio. Filed July 13, 1921. Serial No. 484,491. 2 Claims. (Cl. 164—98.)



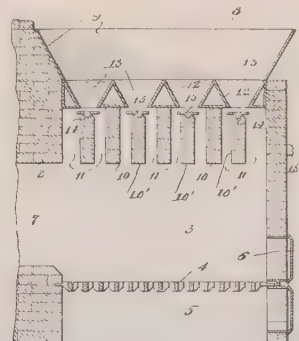
1. In a device of the class described, a serrated perforating blade slightly shorter in height than ordinary type, a steel strip secured to tympan sheets by means of arrow points at each end, there being a plurality of brads formed on the sides of said improved steel strips, and a vertical side to said brads, substantially as described for the purpose set forth.

1,421,418. COLLAPSIBLE TIRE CORE. HAROLD A. DENMIRE, Akron, Ohio, assignor of one half to The General Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 9, 1920. Serial No. 429,340. 3 Claims. (Cl. 154—9.)



1. A collapsible core made up of a plurality of arc-shaped sections which when circumferentially aligned form a complete annulus, two of said sections being diametrically opposed key sections which are capable of being moved radially into and away from the positions in which they are circumferentially aligned with the other core sections, guides upon which said key sections are movable, means for moving said key sections along said guides, said construction being characterized by that the two key sections are capable of being turned about the radial axis along which they move toward and from said shaft.

1,421,419. MECHANICAL STOKER. JOHN J. DERSON, Columbus, Ohio. Filed May 15, 1920. Serial No. 381,714. 5 Claims. (Cl. 110—118.)

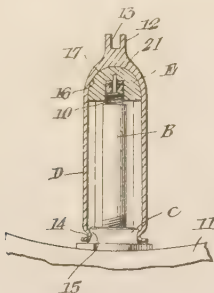


1. A stoker comprising a fuel receiving hopper arranged above the fire box of a furnace, a plurality of spaced stationary walls disposed between the lower end of said hopper and said fire box, said walls defining between them a plurality of fuel passageways arranged over the fire box, outlets provided in the bottom of said hopper and communicating with said passageways, and a plurality of movable agitator members positioned beneath said outlets and operating to effect the passage of the fuel from said outlets into alternate passageways.

1,421,420. PRESSURE-RETAINING DUST CAP FOR PNEUMATIC-TIRE VALVES. THEODORE JOSEPH DERY, Windsor, Ontario, Canada. Filed Apr. 25, 1921. Serial No. 464,273. 3 Claims. (Cl. 152—12.)

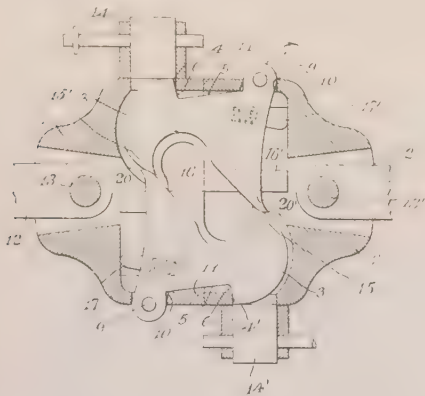
1. A device of the character described comprising a pneumatic air valve having a screw threaded outlet tube and a retaining nut, a dust cap of tubular form adapted to engage the retaining nut, an air retaining member

engaging the sides of the cap on the inner side and adapted to fit the outer end of the cap being reciprocal within the said cap and formed with a socket adapted to fit over the end of the said tube and seal the same, the



said retaining member having free sliding movement both with respect to the cap and with respect to the tube whereby it may freely slide over the screw threading on the tube.

1,421,421. CAR-COUPLING KNUCKLE. ONESIME HERBERT DI LE COMPTE, Oklahoma, Okla., assignor to Universal Car and Hose Coupler Company, Oklahoma, Okla., a Corporation of Arizona. Filed Dec. 16, 1919. Serial No. 345,315. 1 Claim. (Cl. 213—17.)

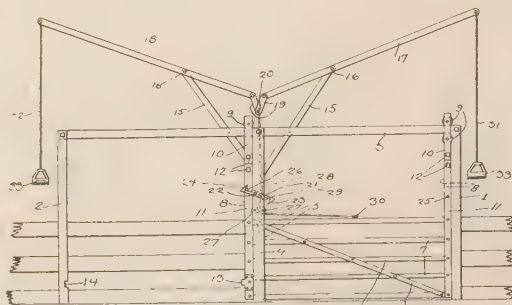


In a car coupler, a hollow coupling head having an open front, a coupling knuckle pivoted to the head at one side of the longitudinal axis thereof and projecting forward so as to protrude from within said head, said knuckle having on the outer side of the protruding portion a shoulder adapted to engage an abutment on a companion coupling head, the engaging surface of said shoulder being disposed at such an angle to the longitudinal axis of the coupler, when said surface is in position to engage the said abutment of a companion coupler, that further outward movement of the knuckle causes said surface to exert a camming action upon the abutment tending to take up wear and lost motion.

1,421,422. GATE. THOMAS J. DRAKE, Sadieville, Ky. Filed June 11, 1921. Serial No. 476,784. 2 Claims. (Cl. 39—45.)

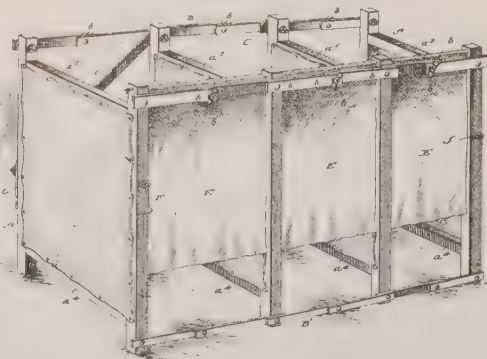
1. In a gate construction, fence posts, a central gate post, a guide track supported upon the gate and fence posts, a gate mounted upon the track for sliding movement for closing and opening the gate opening and provided with keeper pins, one at each end, a latch pivotally mounted on the gate post and provided with latching

lugs to engage either one of the keeper pins, said latch having an opening, a pair of oscillatory levers mounted for movement on the gate post, means connecting the adjacent ends of the levers and the gate, whereby upon tilting either one of the levers the gate may be opened



or closed, said connecting means passing through the opening of the latch, which is so disposed to cause a bend in the cable, so that the latch may be tilted to disengage either one of its latching lugs from the keeper pins prior to the opening or closing movement of the gate.

1,421,423. VOTING BOOTH. ISAAC SAMUEL DRAPER, Sullivan, Ind. Filed Jan. 28, 1918. Serial No. 214,165. 4 Claims. (Cl. 20—3.)

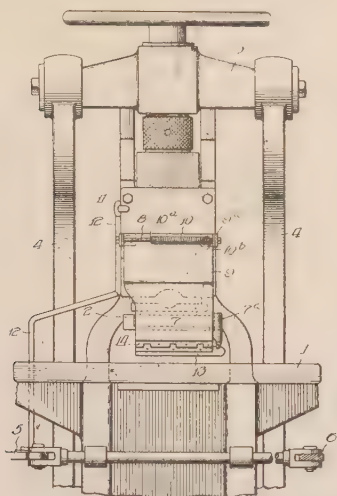


1. A voting booth, including a series of substantially rigid end and intermediate frames arranged face to face, foldable two-part braces connecting adjacent frames at the tops and bottoms of said frames and pivoted thereto at their front and rear edges, and in such positions that when the booth is collapsed said braces will substantially coincide with two of the abutting frames, and pivoted diagonally arranged braces detachable at their ends and extending each from one frame to another frame.

1,421,424. FINGER GUARD FOR PRINTING PRESSES. GEORGE H. DUFOR, Oak Park, Ill., assignor to Marshall Field & Company, Chicago, Ill., a Corporation of Illinois. Filed June 24, 1920. Serial No. 391,314. 8 Claims. (Cl. 74—105.)

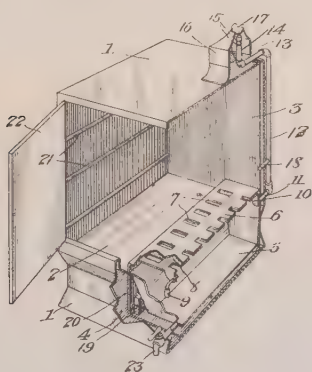
1. In a printing press, a finger guard adapted to normally assume a position to bar access to the space between

the impression members of the press, but movable to a position remote therefrom, a detent for holding the guard



in its last-named position, and means for controlling the press which also controls said detent.

1,421,425. STEAM COOKER. WAYNE A. DUNCAN, Chicago, Ill. Filed May 23, 1921. Serial No. 471,692. 3 Claims. (Cl. 126—20.)

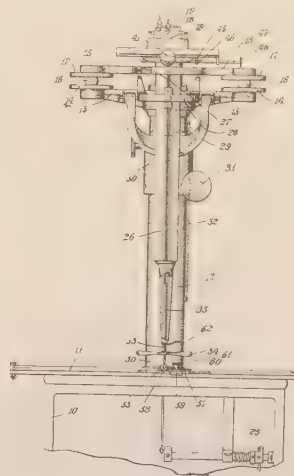


1. In a cooker comprising an oven chamber, the combination with a steam generating compartment, perforations in the top of said compartment for admitting the steam to the oven, a perforated plate for opening and closing the perforations in the top of said steam generating compartment, said perforated plate also provided with means for permitting the exhaust of the steam upon the closing of the perforations in the top of the steam compartment.

1,421,426. ETCHING OR LIKE MACHINE. WILLIAM S. EATON, Sag Harbor, N. Y. Filed Dec. 13, 1921. Serial No. 522,019. 6 Claims. (Cl. 33—32.)

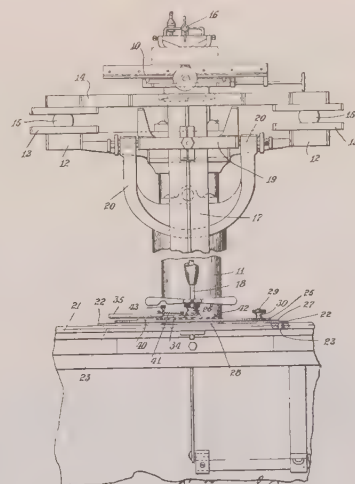
1. An etching or like machine embodying therein the combination with a pattern table, a work support including therein a work table, supporting means therefor having laterally extending parallel slideways upon which said work table is mounted, and means for imparting continuous movement to said table along said slideways, a work point supporting carriage capable of universal movement upon a single plane, a work point carrying arm mounted upon said carriage and capable of movement toward and

from said work table, means whereby the movement of said work supporting arm may be controlled to engage the work point with, or disengage it from, a work plate, a transmitter arm, a universal connection between said transmitter arm and said carriage, and a tracing stylus



carried by said transmitter arm, of a member adapted to engage said stylus and hold said transmitter arm and said carriage immobile, and means whereby a step by step movement of said last named member longitudinally of the machine may be effected.

1,421,427. ETCHING OR LIKE MACHINE. WILLIAM S. EATON, Sag Harbor, N. Y. Filed July 1, 1921. Serial No. 481,923. 16 Claims. (Cl. 33—24.)

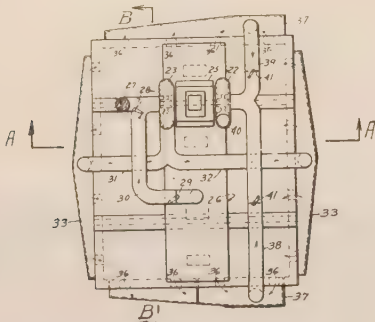


1. An etching or like machine embodying therein a work plate support, a carrier for a work point or tool, said support and said carrier being capable of relative universal movement upon a single plane, a transmitter arm adapted to cause said relative movement, a tracing stylus carried thereby, a pattern table, a base secured thereto, a circular pattern plate rotatably mounted on said base in operative relation to said stylus and having depressed letters, digits or other characters circularly arranged thereon about a common center, and a layout sheet carried by said base and projecting beyond the edge of said plate, whereby succeeding movements of said rotary plate necessary to secure the completed design, may be indicated.

1,421,428. FIRE-EXTINGUISHING SOLUTION. LUIS E. ECKELMANN, New York, N. Y., assignor to Pyrene Manufacturing Company, a Corporation of Delaware. Filed Oct. 23, 1919. Serial No. 332,802. 27 Claims. (Cl. 23-5.)

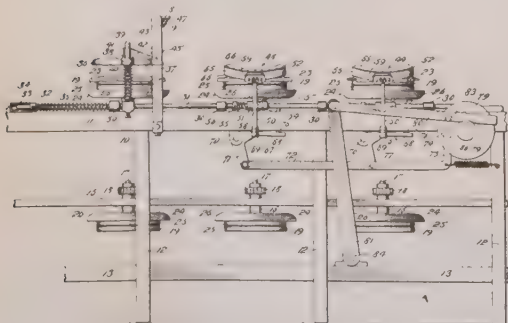
27. A fire extinguishing agent containing a mixture of a plurality of different polychlorinated hydrocarbons and ingredients adapted to produce a tenacious foam.

1,421,429. AIR-CIRCULATING SYSTEM FOR INDUSTRIAL OVENS. WILLIAM C. EHMKA, Detroit, Mich., assignor to Detroit Sheet Metal Works, Detroit, Mich., a Partnership Firm. Original application filed June 14, 1920, Serial No. 388,974. Divided and this application filed Jan. 3, 1921. Serial No. 434,777. 4 Claims. (Cl. 34-19.)



4. An oven in combination with an air heating apparatus, a circulating system, a circulating fan, an exhaust fan, means for operating same, upper and lower exhaust chambers, an intake pipe connecting the circulating fan with the upper exhaust chamber of the oven, a separate air intake breather also connected with the circulating fan intake, means for regulating the proportions of hot air from the exhaust chamber to the fresh air from the intake breather as it enters the fan, and means for distributing same through the oven, and means for exhausting the air from the oven through the exhaust fan.

1,421,430. PIE-MAKING MACHINE. FROM C. EILERSSEN, Jersey City, N. J. Filed Oct. 27, 1921. Serial No. 510,841. 12 Claims. (Cl. 107-1.)

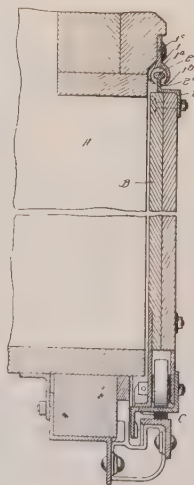


1. In a machine for treating the crust-dough of pies at the rim thereof, a support for a pie-tin, a conveyer for carrying said support along a fixed path, segmental trimmers at opposite sides of the path of the pie-tin having concave surfaces adapted to the edge of the pie-tin,

means for closing said trimmers toward each other and against the pie-tin for squeezing overhanging dough therefrom and means for effecting the travel of said trimmers for a limited distance with the pie-tin while in operative engagement therewith.

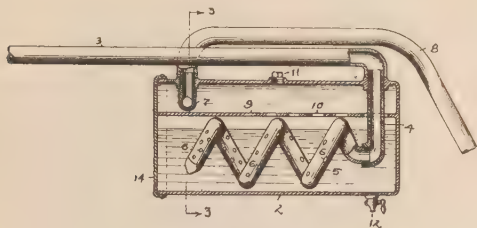
6. In a machine for treating the crust-dough of pies at the rim thereof, a support for a pie-tin, a conveyer for carrying said support along a fixed path, a pressing-ring normally located above the path of the pie, means for pressing said ring downwardly against the pie at the rim thereof, means for effecting the travel of said ring for a limited distance with the pie while in engagement therewith, segmental trimmers in advance of said ring and at opposite sides of the path of the pie-tin having concave surfaces adapted to the edge of the pie-tin, means for closing said trimmers toward each other and against the pie-tin for squeezing overhanging dough from opposite edges thereof, means for effecting the travel of said trimmers for a limited distance with the pie-tin while in operative engagement therewith, means for thereafter turning said support and pie-tin a part of a rotation during the continued travel of the same to present the untrimmed portions of the crust-dough outwardly, a second pair of segmental trimmers having concave facing surfaces to engage the edge of the pie-tin and disposed at opposite sides of the path of travel thereof and in advance of the first trimmers, means for closing said second trimmers toward each other and against the pie-tin for squeezing overhanging dough therefrom, and means for effecting the travel of said second trimmers for a limited distance with the pie-tin while in operative engagement therewith.

1,421,431. CAR-DOOR TOP GUIDE. PERCY M. ELLIOTT, Chicago, Ill. Filed May 3, 1919. Serial No. 294,496. 1 Claim. (Cl. 20--22.)



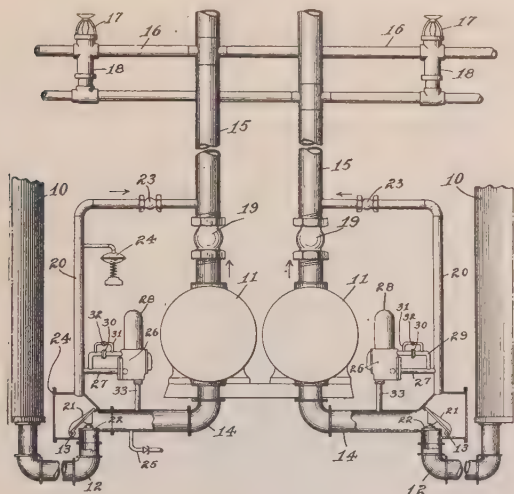
In combination with a car and its sliding door, means normally affording traversing support for the door upon the car, and a guide and emergency support for said door comprising a guide rail and a curb bar; said guide rail comprising a vertically extending attaching base and symmetrically depending guide walls providing between them, and substantially within inner and outer vertical planes of the door, a guideway with a downwardly presented restricted throat; and said curb bar comprising an attaching base, a vertically extending shank offset horizontally from the attaching base to bring it within the vertical plane of the restricted throat, and an integral head carried by said shank within the guideway.

1,421,432. COMBINED MUFFLER AND DEODORIZER FOR EXPLOSIVE ENGINES. FRED EMBANKS, Cleveland, Ohio, assignor to Anastazy Koszyczarek, Cleveland, Ohio. Filed June 16, 1921, Serial No. 478,072. Renewed May 10, 1922, Serial No. 559,924. 3 Claims. (Cl. 183—15.)



1. A combined muffler and deodorizer for explosive engines, having inlet and outlet pipes at opposite ends and extending in opposite directions and crossing to prevent the escape of a liquid in tilting movement of said cylinder and to permit a free discharge of exhaust gases, and said inlet pipe having an outlet extension in the lower portion of the cylinder.

1,421,433. FIRE-EXTINGUISHING SYSTEM. FRANK A. EPPS, New York, N. Y., assignor to Foamite Fire-foam Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 1, 1919. Serial No. 327,759. 21 Claims. (Cl. 169—13.)

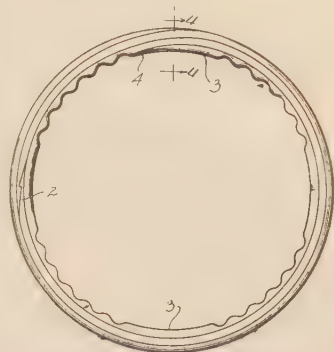


3. In a fire extinguishing system, in combination, a source of supply for the extinguishing medium, means for conducting the medium to a distributing point, means connected to the source of supply and to the conducting means for forcing the medium from the source of supply through the conducting means, compressed air filling said conducting means, means for preventing the flow of the compressed air into the forcing means, and means for preventing the flow of the medium into the forcing means released by a reduction in pressure of the compressed air to permit the flow of the medium from the source to the forcing means.

1,421,434. RIM FOR STEERING WHEELS. JULIUS ERICKSON, Chicago, Ill., assignor to Julian B. La Pierre, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 448,002. 2 Claims. (Cl. 74—33.)

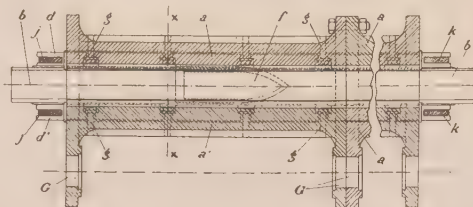
1. A wheel rim comprising a laminated structure formed of a plurality of flat strips of fibrous material

disposed end to end and arranged in a spiral, the opposed ends of said strips having interlocking engagement, and



the laminations being disposed one within another and glued together.

1,421,435. ELECTRIC APPARATUS FOR PROPELLING PROJECTILES. ANDRÉ LOUIS OCTAVE FAUCHON-VILLEPÉE, Paris, France. Filed Apr. 1, 1919. Serial No. 286,798. 5 Claims. (Cl. 172—285.)

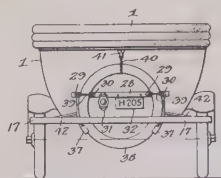


1. An electric gun comprising in combination a winding adapted to create a field of electric force extending over the whole length of the gun, and two diametrically opposed rails adapted to supply the projectile with an electric current and guide the same in a direction at right angles to the field of force, the rails having guiding surfaces which are so curved that a projectile having a circular cross section may be received therebetween.

1,421,436. FIRE-EXTINGUISHING AGENT. GEORGE E. FERGUSON and LUIS E. ECKELMANN, New York, N. Y., assignors to Pyrene Manufacturing Company, a Corporation of Delaware. Filed Oct. 23, 1919. Serial No. 332,810. 19 Claims. (Cl. 23—5.)

19. A fire extinguishing agent comprising a solution of sodium bicarbonate and sodium carbonate and a solution of aluminum sulphate and ferric chloride, said solutions when mixed forming a foam and a precipitate of aluminum hydroxide and ferric hydroxide, said combined precipitate forming a better medium for holding the bubbles of foam than the aluminum hydroxide alone, said sodium carbonate serving to neutralize the ferric chloride.

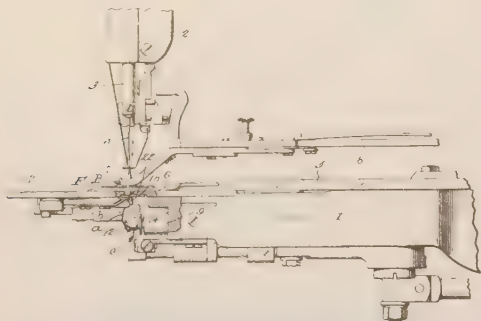
1,421,437. AUTOMOBILE GUARD. VENERANDO FERNÁNDEZ, Habana, Cuba. Filed Nov. 29, 1919. Serial No. 341,449. 1 Claim. (Cl. 293—55.)



A rear automobile guard comprising a pair of extension arms, means to secure the front ends of the same to the

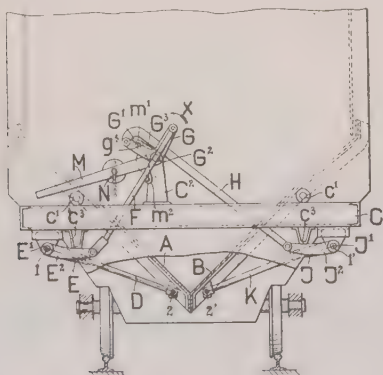
rear portions of the side bars of a chassis, a cross bar connecting the rear ends of the extension arms, standards on the extension arms at points spaced from their rear ends, a transverse bar connecting the upper ends of the standards and provided with tire securing means, and tire supporting stirrups attached to the said extension arms and arranged therebetween.

1,421,438. STITCH-FORMING MECHANISM FOR CHAIN-STITCH SEWING MACHINES. ALBERT F. FIELD, Newark, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Sept. 2, 1920. Serial No. 407,622. 12 Claims. (Cl. 112—201.)



1. In a sewing machine, in combination, a reciprocating needle, a rotary looper having a loop-seizing beak and a loop-spreading wing, means adapted to position the loop at one side of the needle-path, and means on the looper to temporarily detain a limb of the loop after it has been passed around the outer end of the looper.

1,421,439. OPERATING MECHANISM FOR THE DOORS OF SELF-DISCHARGING RECEPTACLES. FRITZ FINCKH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed June 2, 1921. Serial No. 474,532. 5 Claims. (Cl. 105—250.)

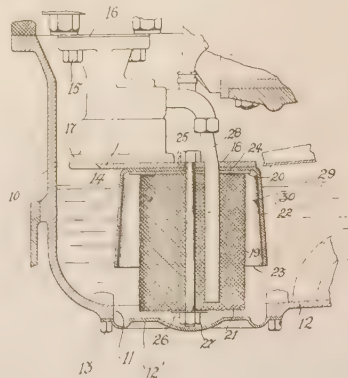


1. In combination with a door member, a plural system of interconnected dead center locks the one dead center lock actuated by another of the dead center locks above referred to, the one dead center lock reaching a substantially dead center position before its actuating dead center lock.

1,421,440. SUCTION INTAKE FOR PUMPS. JAMES B. FISHER, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Jan. 14, 1920. Serial No. 351,304. 8 Claims. (Cl. 184—6.)

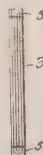
5. In an intake, a cylindrical screen, and a cup-shaped shield over the upper end of said screen, said shield termi-

nating above the lower end of said screen to expose the entire lower end of said screen directly to the liquid sur-



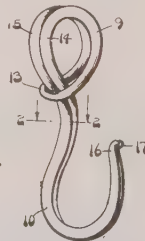
rounding the intake, and sealing said intake from air as long as the liquid level is above its lower end.

1,421,441. SHIM. FRANCIS J. FLINN, Brooklyn, N. Y. Filed Jan. 29, 1920. Serial No. 354,923. 3 Claims. (Cl. 64—10.)



1. A shim comprising a blank of metal folded upon itself to provide a plurality of leaves.

1,421,442. TACKLE HOOK. JOHN H. FLYNN, Jr., Cincinnati, Ohio, assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Filed May 1, 1920. Serial No. 378,152. 2 Claims. (Cl. 24—230.5.)

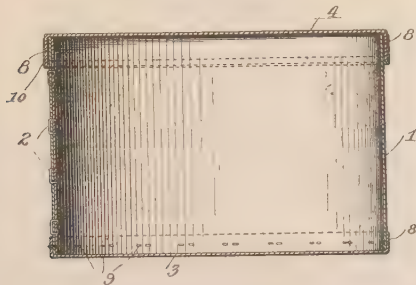


1. A hook consisting of a length of material bent centrally of its length to form a loop and having the ends beyond the loop brought together to form a hook.

1,421,443. HAT BOX. ABRAHAM FOGEL, Montreal, Quebec, Canada. Filed Dec. 26, 1918. Serial No. 268,314. 1 Claim. (Cl. 229—45.)

As a new article of manufacture a paper box comprising a body portion consisting of a sheet of material having its opposite ends connected together, a top and bottom, each consisting of a single disk of material placed to form a disk body portion and a depending marginal flange integral therewith and of a single thickness, the flange of the bottom of the box being rigidly connected to the body portion thereof, and a reinforcing strip secured to and covering substantially the entire outer surface of the single flange of the top of the box and returned and folded around the lower edge of the said flange of the top and extended up-

wardly on the inner face of such flange at the lower portion of the same, the inturned or folded portion of the reinforcing strip providing an engaging or gripping portion and being spaced from the upper edge of the body of the



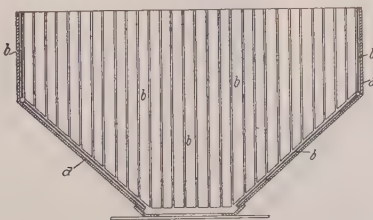
box when the top is placed on the same to permit the body of the box to expand above the gripping or engaging portion of the reinforcing strip to retain the top of the box on the body portion.

1,421,444. RAILWAY SWITCH. THOMAS COSON FOLSOM, Tampa, Fla. Filed Jan. 19, 1922. Serial No. 530,285. 4 Claims. (Cl. 246—320.)



2. A switch including a supporting base having an integral rail portion one end of which connects with one rail section and the other end of which connects with a second rail section, an elongated detachable switch tongue rigidly secured at one end to said supporting base in alignment with a third rail section and being tapered so that its other end merges into alignment with said second rail section, said tongue being adapted to be sprung out of alignment with said second rail section.

1,421,445. COKE-QUENCHING RECEPTACLE. ARWED FRÄNKEL, Berlin, Germany. Filed Nov. 3, 1920. Serial No. 421,587. 4 Claims. (Cl. 202—11.)

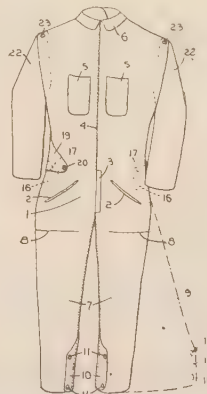


1. A coke quenching receptacle, comprising an outer solid receptacle and an inner perforated receptacle, comprising bars preventing the glowing coke from touching the walls of the outer receptacle and adapted to be fastened to the inside of the wall of said outer receptacle.

1,421,446. GARMENT. DUDLEY FREEMAN, Roxbury, Mass. Filed July 23, 1921. Serial No. 486,950. 7 Claims. (Cl. 2—144.)

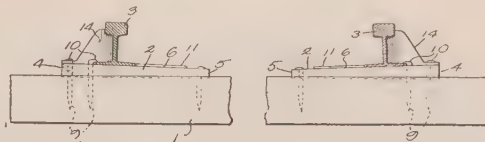
1. A garment comprising an obverse trunk section, depending leg flaps connected to the obverse trunk section to cover the obverse portions of the legs, a reverse flap connected to the inner edges of the leg flaps to cover the reverse portion of the trunk, separable fastening means for securing the upper outer corners of the obverse trunk section and reverse flap together, a side extension connected

to the outer edge of each leg flap, the said extensions acting, when wrapped around the legs to cover with the re-



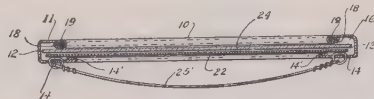
verse flap the reverse portions of the legs, and separable fastening means for securing the lower outer corner of each extension in position.

1,421,447. SWITCH PLATE. ANTONIO FRINZI, Easton, Pa. Filed Sept. 19, 1921. Serial No. 501,790. 1 Claim. (Cl. 246—453.)



A switch plate adapted to be arranged on the top of a tie to receive a rail, said switch plate being of greater thickness at one end than at the other, and being provided with openings adjacent each end for the reception of suitable securing means, said plate being further provided with a plurality of openings disposed adjacent the portion of the switch plate at which the side of a rail will be positioned, an upwardly projecting portion spaced from said openings adapted to engage the opposite side of the rail, and ribs arranged on the bottom of said plate and extending diagonally thereof.

1,421,448. PICTURE FRAME. LEWIS FRITZ, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,784. 8 Claims. (Cl. 40—154.)

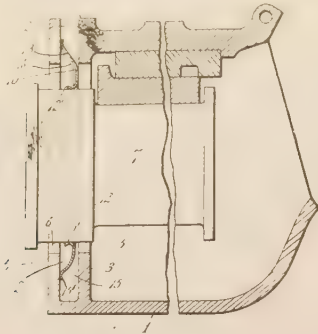


2. An article of the class described comprising a frame, there being lateral flanges on said frame and bent inwardly thereupon forming channels; a back removably positioned in said channels; an upwardly turned lip formed on said back to facilitate removing said back from said channels; and a shoulder traversing said frame at the entrance thereof for releasably holding said back against removal from said frame.

1,421,449. DUST GUARD. HARRY C. GAMAGE, New York, N. Y., assignor to D. P. Company, a Corporation of New Jersey. Filed Jan. 4, 1916. Serial No. 70,093. 9 Claims. (Cl. 64—22.)

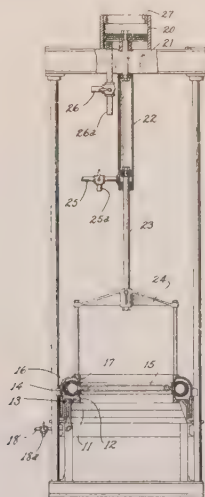
1. A dust guard for car axle boxes consisting of a single resilient plate provided with an opening for the car axle.

and having integral flanges at its upper and lower edges, the flange at its upper edge being straight and its lower



edge being of semi-circular outline and bent away from the body of the plate to constitute a flange extending around said semi-circular lower edge.

1,421,450. METHOD AND APPARATUS FOR MANIPULATING FLEXIBLE ARTICLES. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 484,328, filed July 13, 1921. This application filed Jan. 16, 1922. Serial No. 529,500. 28 Claims. (Cl. 18—2.)



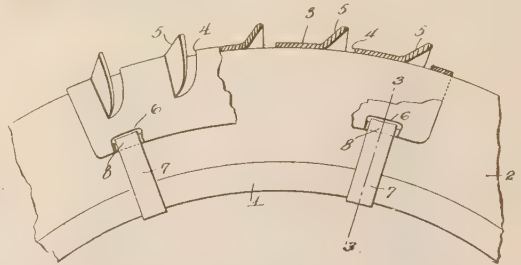
1. The method of spreading a hollow article which comprises holding one side of the article, holding the opposite side by means of a vacuum, and relatively separating the two holding means, while the vacuum is applied, to separate the sides of said article.

1,421,451. BELT. ANGELO F. GARBERDING, Goodland, Minn. Filed Mar. 21, 1921. Serial No. 454,085. 4 Claims. (Cl. 224—5.)



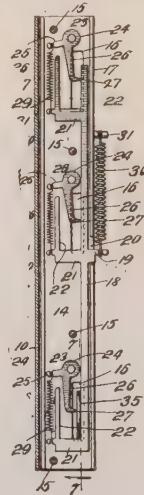
3. A combination cartridge and money belt formed of three strips of material, one strip of material forming the body and provided with slits, another strip trained through the slits to form cartridge receiving compartments, and the remaining strip attached to the body to reinforce the same and provide pockets for receiving money and the like.

1,421,452. MUD HOOK. CARL NAPOLION GEROSA, Augusta, Ga. Filed Sept. 28, 1920. Serial No. 413,287. 1 Claim. (Cl. 152—14.)



In a mud hook, the combination with an automobile tire mounted on a rim, a channel like body member adapted to embrace the tread portion of the tire, the said body portion being provided with a plurality of transverse slits extending the width of the tire, the material embracing the slits being bent upwardly to form angularly disposed cleats, said cleats being curved transversely to conform with the curvature of the tire, and means to secure said body plate around the rim of the tire.

1,421,453. COIN-CONTROLLED VENDING MACHINE. HARVEY GILES, Brooklyn, N. Y., assignor to Artemas Ward, New York, N. Y. Filed Sept. 18, 1920. Serial No. 411,233. 2 Claims. (Cl. 194—87.)

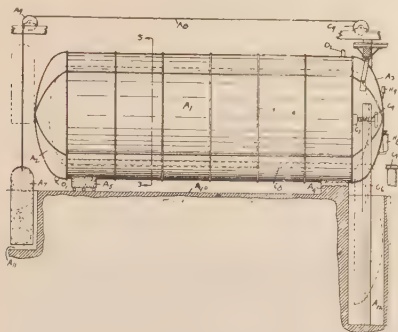


2. In a coin-controlled vending machine having a plate containing a plurality of coin entrance slots, washer catcher mechanism located at the reverse side of said plate adjacent to said slots and comprising a dog at each slot having an arm adapted to project across the slot, and also to enter a hole in a washer should the washer be present, means normally acting on said dogs to move them to their operative position, and means for restraining all said dogs in their inoperative position and adapted on the introduction of a coin or a washer into any coin slot to be engaged thereby and release all said dogs to automatically and simultaneously move to their operative position, whereby on the use of any coin-slot of the series, the washer-catcher dogs at all of the other slots will thereby move to operative position across said other slots and bar the entrance of coins therethrough until the slot used has been freed of its coin or washer.

1,421,454. TANK AND CLOSURE. CHARLES E. GLESSNER, Portland, Oreg. Filed Sept. 29, 1919. Serial No. 327,110. 2 Claims. (Cl. 72—14.)

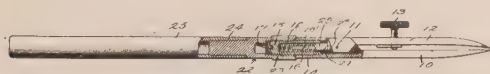
1. The combination of a tank and closure member with an expansible metal covering hermetically enclosing the

inner, outer and end surfaces of the structure of said tank, a vacuum creating means adapted to exhaust the air from between said tank coverings, an expansible metal covering hermetically enclosing the structure of said closure mem-



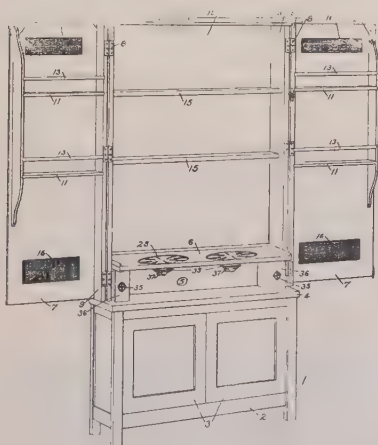
ber, a vacuum creating means adapted to exhaust the air between the covering which surrounds said closure member, a means for exhausting the air from within the tank itself, and a means for sealing the union of said tank member and said closure member.

- 1,421,455. RULING PEN. CHARLES A. GREEN and HENRY F. SCHUH, Chicago, Ill., assignors to The C. F. Pease Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 29, 1919. Serial No. 348,177. 3 Claims. (Cl. 120—109.5.)



1. In a ruling pen, a stationary blade having a threaded bore in its butt end, a swinging blade pivotally connected with said stationary blade adjacent said bore and provided adjacent its pivot with a cam face, a member mounted within the bore, a compression spring within the bore projecting said member for engagement with said cam face and an externally threaded member extending within said bore and engaging the spring and having its upper end extending outwardly from the butt end of said stationary blade to provide means for attaching a handle.

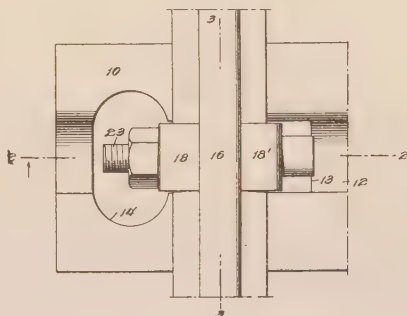
- 1,421,456. KITCHENETTE CABINET. DARIUS O. GREEN, Toledo, Ohio. Filed Aug. 4, 1921. Serial No. 489,668. 2 Claims. (Cl. 126—38.)



1. In a cabinet the combination of a loosely mounted hotplate, a separately mounted pipe system and a station-

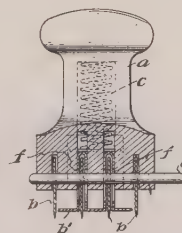
ary pan mounted on a shelf, said pan having upstanding walls at the rear and two sides thereof, the extreme upper marginal portions of said walls having outward turned flanges, the front side of pan being open, the bottom of said pan extending forward past the two end walls, the extreme marginal edges of said bottom having downturned flanges and the rear wall of said pan provided with openings for passing of pipes to burners.

- 1,421,457. RAIL FASTENING. LOUIS D. GREGG. Hackensack, N. J. Filed Oct. 20, 1921. Serial No. 509,039. 5 Claims. (Cl. 238—332.)



5. A fastening-device for securing a flanged rail upon a cross-tie, comprising two similar but oppositely-disposed apertured clips of malleable material each having two jaws adapted to engage respectively the under surface of said tie and the inclined upper surface of the adjacent rail-flange, the inner face of the vertical portion of each clip being of greater height than the distance between said bottom bearing-surface of the tie and the outer upper edge of the rail-flanges, said upper jaw extending at less than a right-angle from said vertical inner face, a headed bolt passed through said apertures in said clips, and a nut screwed upon said bolt to draw said clips together under tension and clamp said flanges upon said ties.

- 1,421,458. APPARATUS FOR CHOPPING FOODSTUFFS. GEORGE WRIGHT GREGORY, London, England. Filed Dec. 27, 1921. Serial No. 525,162. 2 Claims. (Cl. 17—22.)

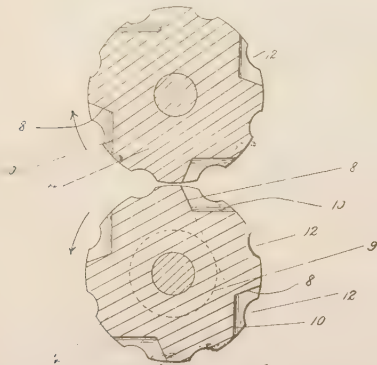


1. In apparatus for chopping food stuffs in which a plurality of blades are employed and having a spring actuated ejector, the combination therewith of a U-shaped fork for the purpose of retaining the blades in position and allowing of easy replacement as set forth.

- 1,421,459. SNAPPING ROLL. HENRY F. GRITZMACHER, Le Sueur, Minn. Filed Mar. 15, 1922. Serial No. 543,944. 2 Claims. (Cl. 130—5.)

1. A snapping roll provided with a series of pockets in its periphery, each pocket having a flat segment-shaped bottom arranged tangentially of a circle formed concentric

with the roll and substantially one-half of it in diameter, and having a curved side portion which corresponds in cur-



vature with the arc of the segment-shaped bottom and which has its middle part arranged at an obtuse angle to the said flat bottom.

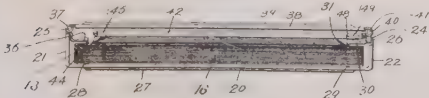
1,421,460. PROPELLER. FRANÇOIS LEONIDAS GUILLEMET, San Francisco, Calif. Filed Oct. 3, 1919. Serial No. 328,273. 8 Claims. (Cl. 170—159.)



1. A propeller comprising a hub, a plurality of outwardly extending blades carried by the hub, the blades being curved transversely throughout their entire lengths, transversely extending arcuate partition plates carried by the blades, the plates being scribed on an arc with the hub as their center, and of substantially elliptical form and terminating flush with the side edges of the blades.

8. In a propeller, the combination of a body formed of relatively heavy material having a plurality of perforations therein to lighten the weight thereof, and plugs of relatively light material fitted within the said perforations.

1,421,461. MANIFOLD SALES BOOK AND COVER THEREFOR. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, St. Louis, Mo. Filed Mar. 25, 1921. Serial No. 455,422. 6 Claims. (Cl. 282—9.)

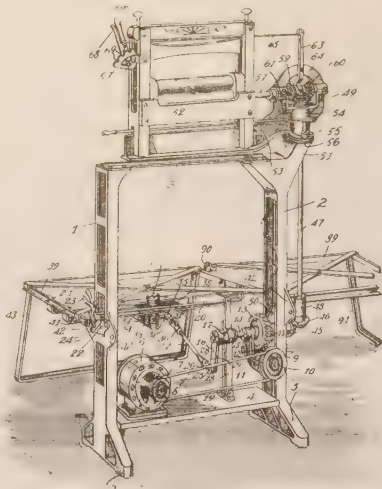


3. A manifold sales book, comprising a plurality of original and duplicate sales tickets, a plurality of tissue sheets interposed between the original and duplicate tickets, said tissue sheets projecting beyond the edges of the original and duplicate tickets, a projection secured to one end of said duplicate tickets, and a back of relatively stiff material to which the projections of the duplicate tickets and of the tissue sheets are secured.

1,421,462. WASHING MACHINE. CHARLES G. HALL, Akron, Ohio. Filed Nov. 22, 1920. Serial No. 425,752. 7 Claims. (Cl. 68—35.)

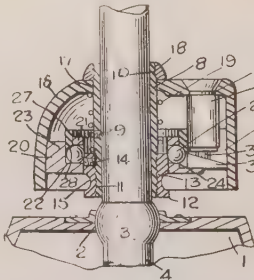
1. A washing machine comprising a vertical main frame, motive means mounted thereon, a bench hingedly connect-

ed to the vertical frame, washing means arranged to be supported upon said bench, a shaft on said bench having



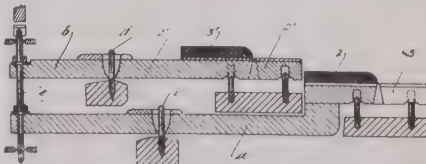
a detachable coupling with the washing means and an operative connection between the motive means and shaft.

1,421,463. TRANSMISSION-LEVER-LOCKING DEVICE. ALEXANDER MACDOWALL HAMILTON, Toronto, Ontario, Canada. Filed May 16, 1921. Serial No. 469,991. 5 Claims. (Cl. 70—128.)



4. In a transmission lever locking device, the combination with a transmission housing and a transmission lever carried by the housing so as to swing, of a ball engaging member carried by the transmission lever, a spring pressed bell movable longitudinally towards the housing against such spring pressure, a ball, means automatically operated simultaneously with the movement of the bell towards the housing for carrying the ball into engagement with and holding it in contact with the ball engaging member, and key operated means for releasing such holding means.

1,421,464. KEYBOARD FOR MUSICAL INSTRUMENTS. PIERRE HANS, Brussels, Belgium. Filed Mar. 5, 1920. Serial No. 363,599. 5 Claims. (Cl. 84—424.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



2. In a musical instrument having a conventional keyboard consisting of seven white and five black keys to the

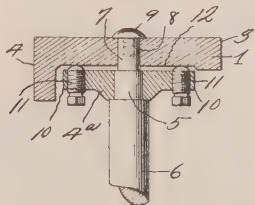
octave, each of said keys being adapted to operate an actuating element for a different note in the chromatic scale, the combination of a second keyboard having similar keys, each black key on the second keyboard being permanently connected with the actuating element of a white key on the first keyboard, all keys on both keyboards being simultaneously accessible.

1,421,465. GAUGE FOR EYEGLASS MOUNTINGS. MARINIUS HANSEN, Brooklyn, N. Y. Filed May 20, 1920. Serial No. 382,906. 4 Claims. (Cl. 81-15.)



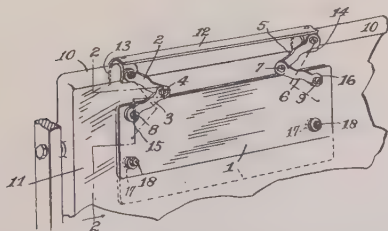
1. A gauge for eyeglass mountings, comprising a curved body section to rest between the straps, and a flange carried with the body section for its entire length and extending equal distances from its sides.

1,421,466. RING-RAIL BRACE FOR SPINNING MACHINES. JAMES R. HANSON and JOHN R. SHEPHERD, Anderson, S. C. Filed June 24, 1921. Serial No. 480,065. 4 Claims. (Cl. 118-68.)



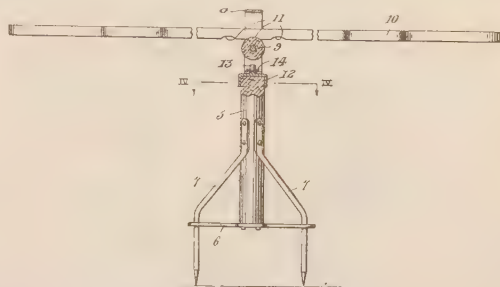
2. The combination with a ring rail secured to a lifting rod, of means for preventing movement and warping of said ring rail in one direction and for straightening the rail after warping, said means comprising a transversely disposed plate carried by the lifting rod adjacent one side of the ring rail and adjusting screws extending through the transversely disposed plate and engaging the surface of the ring rail.

1,421,467. WINDSHIELD ATTACHMENT. ALBERT S. HARDEN, Newark, N. J. Filed Sept. 28, 1921. Serial No. 503,853. 7 Claims. (Cl. 296-97.)



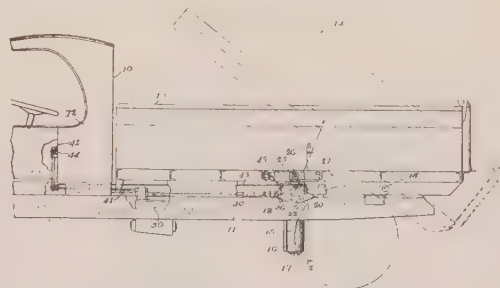
4. An attachment for a wind-shield, comprising an elongated plate of transparent material, and a pair of supporting members, each comprising a pair of links pivoted together at one end, one link of each pair being pivoted to the plate adjacent one corner and the other link being pivoted to a spring clip, and a bar secured to the clips.

1,421,468. COMBINED MERRY-GO-ROUND AND TEETER BOARD. ANTON F. HAUMERSON, Fort Atkinson, Wis., assignor to Pounder Harrow Company, Fort Atkinson, Wis. Filed July 23, 1921. Serial No. 487,018. 6 Claims. (Cl. 46-22.)



1. A combined merry-go-round and teeter board comprising a support, a frame supported in a vertical position upon the upper end of said support and swiveled upon the latter about a vertical axis, a transverse member supported by said frame, a teeter board extending through the frame and resting upon said transverse board, said transverse member comprising a horizontal roller, and said board being provided with transverse grooves near its central portion for selective reception of said roller.

1,421,469. FLUID HOIST. JULIUS P. HEIL, Milwaukee, Wis. Filed Apr. 2, 1919. Serial No. 286,872. 10 Claims. (Cl. 298-22.)

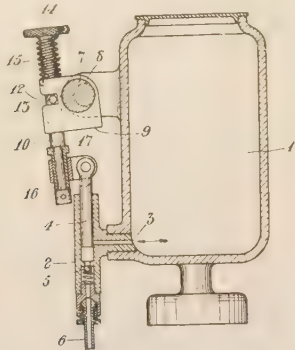


1. A fluid hoist, comprising a pair of cylinders having ports at their opposite end portions, pistons within the cylinders and between the ports of the respective cylinders and having piston rods extending through the cylinders, means connecting said piston rods together, a tank in communication with both cylinders, ducts connecting the ports of the cylinders together in pairs, a pump intersecting the pairs of ducts between the respective ports thereof for moving a fluid medium within the cylinders from one side of the pistons to the other to move the pistons to predetermined positions of rest, said positions of rest of the pistons closing the ports which are supplying the fluid medium to the pump and thereby automatically stopping the movement of the pistons, and a valve controlled duct in communication with the ducts connecting the pairs of ducts to permit the passage of the fluid medium from one side of each piston to the other side without passing through the pump.

1,421,470. FORCED-LUBRICATION APPARATUS PROVIDED WITH PUMPS. KARL GUSTAF FRIDOLF HELL-SING, Stockholm, Sweden, assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden, a Manufacturing Company registered under the laws of Sweden. Filed Oct. 4, 1920. Serial No. 414,600. 6 Claims. (Cl. 184-27.)

3. In a forced lubrication apparatus, the combination of a receptacle for lubricant, pumps connected with said re-

ceptacle and adapted to pump the lubricant from the same, pistons in said pumps, a driving means for each of said pump pistons, a stem connected with each pump piston, a stud on said stem, a member connected with each driving

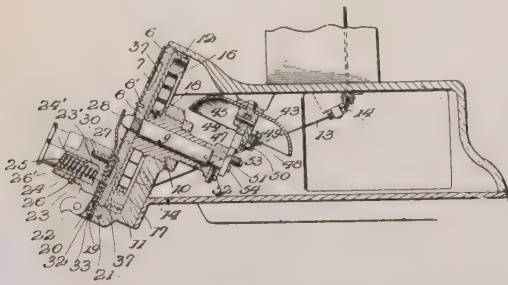


means and having an aperture in which said stem is rotatable and movable longitudinally, and having a slot in the longitudinal direction of said aperture and a notch transverse to said slot in which slot and notch said stud is movable.

1,421,471. METAL COMPOUND POWDER AND PROCESS FOR THE PRODUCTION OF THE SAME. WALTER PROSSER HESKETT, Castlecliff, New Zealand. Filed Nov. 17, 1919. Serial No. 338,737. 8 Claims. (Cl. 75-1.)

1. As a new article of manufacture, a metal compound powder produced by the self disintegration of metallic compounds or alloys.

1,421,472. CORRECTION DEVICE. FRANK C. HINCKLEY, Bridgeport, Conn., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Original application filed Mar. 20, 1917; Serial No. 156,044. Divided and this application filed Apr. 11, 1918. Serial No. 227,941. 18 Claims. (Cl. 274-17.)

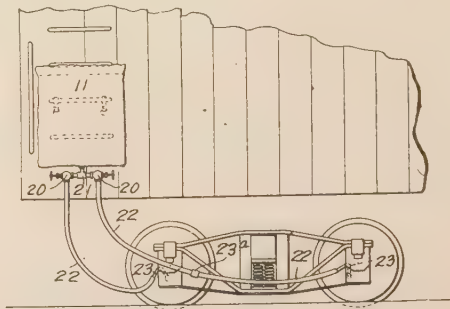


1. The combination in a sound-recording or reproducing machine, of a record-tablet support and a sound-box having relative movement between them, a disc-shaped support for a correction-sheet, means for causing a relative rotation of said correction-sheet support simultaneously with and proportionately to said relative movement, and marking means comprising cooperating members disposed above and below the correction-sheet, the disc-shaped support having a circumferential recessed portion adapted to receive the lower member of the marking means.

1,421,473. JOURNAL-BOX COOLER. JOHN HINSON, Montreal, Quebec, Canada. Filed Oct. 19, 1920. Serial No. 418,021. 6 Claims. (Cl. 64-28.)

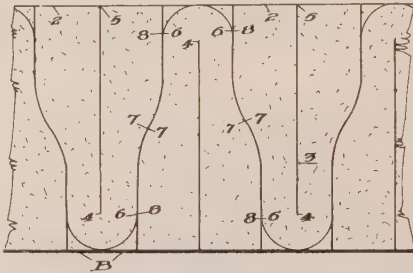
1. A device of the class described comprising a reservoir, means for attaching same to a car, a water conduit leading

from the reservoir and a goose-neck at the outlet end of the conduit adapted to hook into a journal box, said goose-



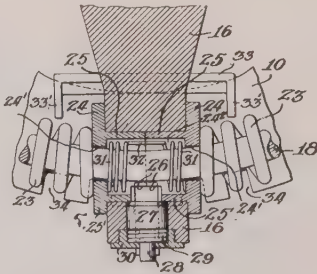
neck having a large tip to resist withdrawal from the journal box.

1,421,474. BLANK FOR SLIPPERS. MORRIS HIRSHFIELD, Brooklyn, N. Y. Filed Mar. 17, 1922. Serial No. 544,582. 3 Claims. (Cl. 36-47.)



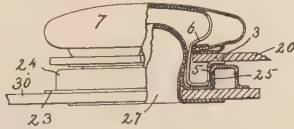
1. A blank for the uppers of slippers comprising a single piece of material with a straight cut heel or base, and curved sides, the curve of approximately one half of each side being a reverse of the curve of the other half, so that the sides of two blanks lying adjacent each other and pointing in opposite directions will coincide throughout almost their entire length.

1,421,475. SAFETY LATCH FOR STEERING CONTROLLERS. JOSEPH HOFFMAN, Camden, N. J. Filed June 15, 1921. Serial No. 477,693. 5 Claims. (Cl. 74-5.)



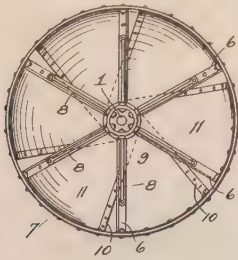
1. In a steering controlling device of the class described, a sector lever, a ball lever mounted on said sector lever at its support and co-axially therewith, springs, positioned on said sector lever, adapted for compression between said sector lever and said ball lever and latch mechanism operably positioned within said ball lever adapted to engage said sector lever upon the breaking of a spring thereon, substantially as described.

- 1,421,476. STUD AND SOCKET FASTENER. GEORGE A. HOLMES, Newton Center, Mass., assignor to United States Fastener Company, a Corporation of Maine. Filed June 3, 1921. Serial No. 474,818. 2 Claims. (Cl. 24-208.)



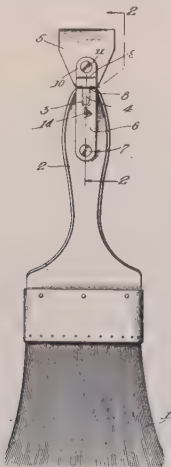
1. A stud and socket fastener comprising a socket member having a stud receiving socket and base flange and being provided with an annular ridge between the mouth of the socket and the base flange, said socket and ridge projecting from opposite faces of the base flange combined with a stud member having a bulbous head and a base flange provided with an annular ridge adapted to surround and co-operate with the ridge of the socket member.

- 1,421,477. FAN. JOHN T. HOPE, Kansas City, Mo. Filed June 16, 1921. Serial No. 478,001. 2 Claims. (Cl. 170-168.)



1. A fan comprising a hub and a ring disposed in different parallel planes with their axes aligned, and forwardly bowed blades converging forwardly around the common axis of said hub and ring, the cutting edges of the blades being straight and their opposite or discharge edges being outwardly bowed; the front portions of said curved edges of the blades respectively overlapping the corresponding ends of the cutting edges of the following blades, the rear ends of said edges of the blades being spaced apart and said edges from front to rear occupying intersecting planes.

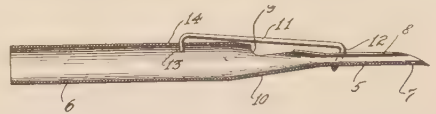
- 1,421,478. SCRAPER ATTACHMENT FOR PAINT-BRUSHES. OLE J. HOPE, Chicago, Ill. Filed Oct. 27, 1920. Serial No. 419,802. 4 Claims. (Cl. 15-111.)



1. The combination of a handle; a pair of clamping arms secured to opposite sides of the handle at one end thereof

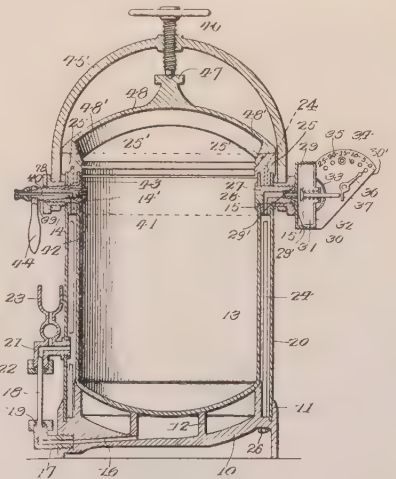
and projecting beyond the same, and a scraper blade engaged between the extending portions of said arms, together with a member connecting said extensions and engaging an opening in the blade, and means by which said blade is positively engaged with the handle at a distance from said member to prevent pivotal movement of the blade thereon.

- 1,421,479. EMBROIDERY NEEDLE. LEE D. HOVER, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,394. 1 Claim. (Cl. 112-80.)



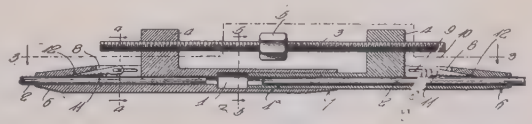
The combination with an embroidery needle, of a gage device comprising a loop passing around the body of the needle obliquely to its longitudinal axis, a resilient shank carrying the loop and seating alongside the needle body, and means for locking the shank to the needle body.

- 1,421,480. COOKER. HORACE HULL, Denver, Colo., assignor of one-half to L. A. Bastin and one-half to John H. Post, both of Denver, Colo. Filed Feb. 2, 1921, Serial No. 441,856. Renewed Jan. 19, 1922. Serial No. 530,492. 4 Claims. (Cl. 53-1.)



1. A cooking device including a food container and a surrounding jacket spaced therefrom, the space between the jacket and container constituting a steam generating chamber, and a single means for exhausting steam from the steam chamber, exhausting steam from the container, and conducting steam from the steam chamber to the container.

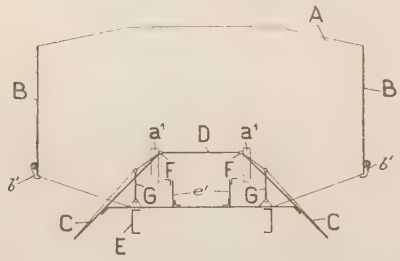
- 1,421,481. COMBINATION TROLLEY-WIRE STRETCHER AND SPLICE. DEMPSIE RAY HUNLEY, Cofoco, W. Va. Filed Aug. 22, 1921. Serial No. 494,289. 3 Claims. (Cl. 191-44.1.)



1. A combined trolley wire stretcher and splice comprising two slidably connected tubular splice members adapted to receive the adjacent ends of a broken trolley wire,

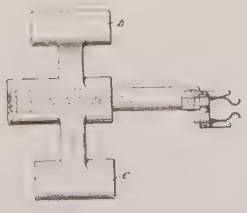
means for securing the wire ends in said splice members, and means for relatively sliding said splice members to draw said wire ends toward each other; said splice members being adapted to remain permanently on the wire ends and being shaped to allow free passage of a trolley wheel or like device along them.

1,421,482. SELF-DISCHARGING CAR. GERHARD IMMAND, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen - on - the - Ruhr, Germany. Filed Jan. 14, 1921. Serial No. 437,371. 2 Claims. (Cl. 105—246.)



1. In combination with a receptacle, a substantially single central movable bottom member and a plurality of outer bottom members, said bottom members linked together, means to keep at least one of said outer bottom members fast, and further means for permitting the tilting of at least one of the other of said outer members whilst raising its inner end.

1,421,483. BACK GAUGE. GEORGE W. JACQUES, Stratford, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 23, 1919. Serial No. 319,401. 4 Claims. (Cl. 218—15.2.)

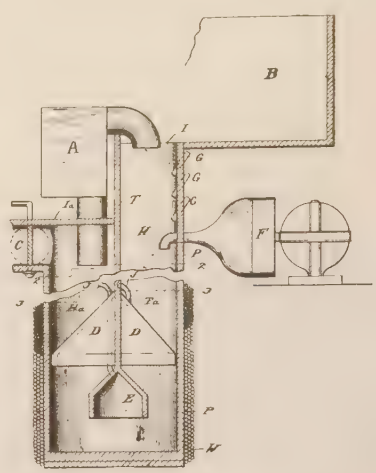


1. In combination, an edge-gauge, a hollow stem projecting therefrom, a hollow internally threaded support within which said stem is slidably mounted, and means permitting adjustment of the operative position of the edge-gauge comprising an adjusting screw journaled in said stem and coacting with said internally threaded support.

1,421,484. AIR COMPRESSOR. ARTHUR B. JENNINGS, New York, N. Y. Filed Oct. 30, 1917. Serial No. 199,386. 3 Claims. (Cl. 183—26.)

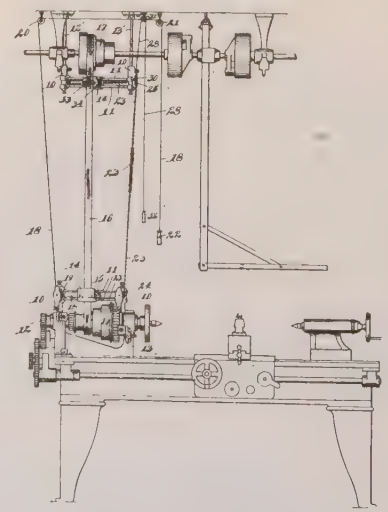
1. An air compressor comprising a descending, and an ascending column of water, said columns being in communication at both top and bottom, means to introduce air and water into one column, means to maintain the water at a lower level in the other column, and a plurality of

pockets arranged at intervals in the descending column adapted to receive air from the flowing water, said pockets



being spaced apart and arranged whereby the water may flow inwardly between said pockets.

1,421,485. CONE BELT SHIFTER. EMERALD E. JONES, Chicago, Ill. Filed Mar. 10, 1919. Serial No. 281,645. 6 Claims. (Cl. 64—4.)

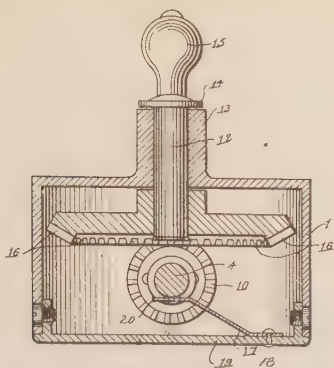


1. The combination with two oppositely arranged cone pulleys and a belt therefor, of a guide adjacent each pulley; a carriage slidable on each guide; a belt guide on each carriage engaging said belt; means for positively operating each of said carriages to shift the corresponding portion of the belt from a larger onto a smaller pulley; and a tension spring associated with said carriages for effecting delayed operation of one of the carriages for shifting said belt from a smaller onto a larger pulley, substantially as described.

1,421,486. OPERATING DEVICE FOR VALVE GRINDERS. ERWIN R. JONES, Columbus, Ohio. Filed May 29, 1919. Serial No. 300,777. 2 Claims. (Cl. 74—50.)

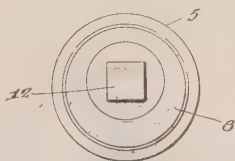
1. In a valve, a casing, a valve rotating shaft journaled in said casing, a pair of spaced pinions carried by said shaft, a gear element capable upon being revolved of successively meshing with said pinions to alternately oscillate

the shaft first in one direction and then in the other, a removable closure plate for said casing, and a leaf spring having one end thereof fixed to said plate and its opposite



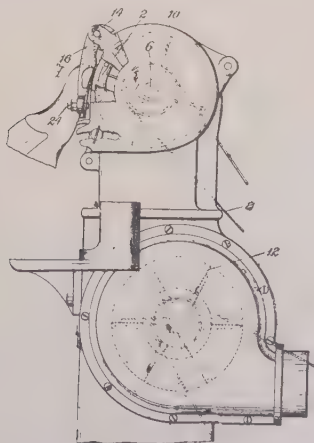
or free end disposed to engage with said shaft, whereby said spring will serve to maintain said shaft substantially stationary during the period of repose when the gear element is out of mesh with said pinions.

1,421,487. LUBRICATOR. SAMUEL P. JONES, Columbia, S. C. Filed Apr. 29, 1921. Serial No. 465,417. 7 Claims. (Cl. 184—48.)



7. The combination of a grease cup, and a closure applicable thereto and adjustable thereon for forcing the lubricant from the same, the connection between said cup and its closure being a threaded one, a means for locking the closure to the cup to positively prevent turning of said closure in a direction to unscrew, and means carried by the plug for disengaging the locking means, said disengaging means being also operable to turn the closure in a direction to unscrew from the cup.

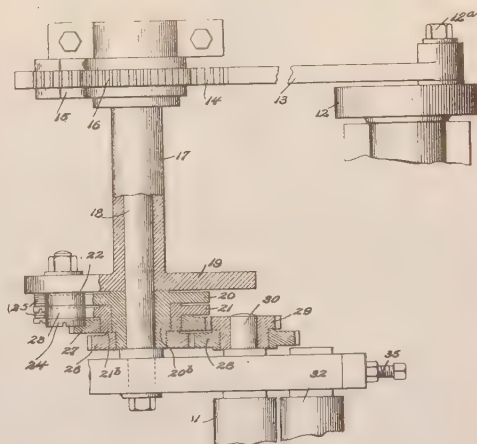
1,421,488. MACHINE FOR REMOVING SURPLUS MATERIAL. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 16, 1918. Serial No. 262,856. 22 Claims. (Cl. 12—83.5.)



1. In a machine for removing surplus material from the bottom of a lasted shoe, the combination with trimming

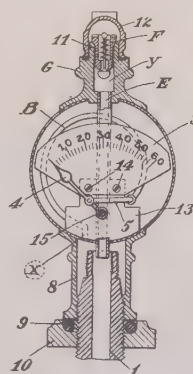
means, of a shoe positioning device constructed and arranged to position longitudinally an end of a shoe held in the hands of the operator with its bottom facing said trimming means and movable with the shoe in a path transverse to the plane of the shoe bottom to present the surplus material in the field of action of said means.

1,421,489. STRIP-FEEDING MECHANISM. FRANK M. JOSLIN, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a Corporation of New York. Original application filed Mar. 29, 1920, Serial No. 369,487. Divided and this application filed June 25, 1920. Serial No. 391,842. 17 Claims. (Cl. 273.)



4. In a strip feeding mechanism, a feed roll, two gears secured to said roll, two other gears cooperating with said first named gears, and separate means operating alternately and intermittently at predetermined intervals for driving said last named gears.

1,421,490. PERMANENT AIR GAUGE FOR PNEUMATIC TIRES. ERNST JUNG, St. Louis, Mo. Filed Dec. 20, 1920. Serial No. 431,998. 1 Claim. (Cl. 152—11.5.)



An air gauge, comprising a closed housing provided with a sight opening, a dial and a co-operating movable indicator arranged inside of said housing in proximity to said sight opening, a tubular member on the underside of said housing that is adapted to be screwed onto the valve stem of a pneumatic tire, said tubular member being of such length that the housing will be spaced away from the extreme upper end of the valve stem, a hose connection on the upper side of said housing to which an air line can be

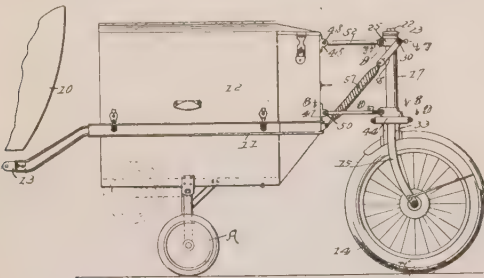
connected, a check valve in said hose connection, an air inlet pipe extending downwardly from said check valve and arranged with its lower end projecting into the valve stem of the tire, and an actuating device for said movable indicator provided at one end with an air inlet arranged substantially parallel to the air inlet pipe through which air is supplied to the inner tube of the tire.

- 1,421,491. METHOD OF PRODUCING HOLLOW WIRE FOR MANUFACTURING OF CHAINS AND THE LIKE. FRIEDRICH KAMMERER, Pforzheim, Germany. Filed Aug. 9, 1920. Serial No. 402,493. 2 Claims. (Cl. 29—188.)



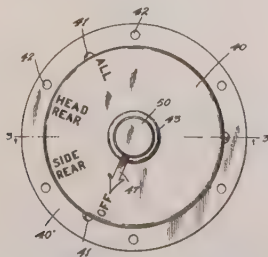
1. A method of producing hollow wire for the manufacture of chains, consisting in embedding dehydrated borax as flux in the hollow wire and then drawing out the latter in the known manner.

- 1,421,492. TRAILER. HENRY KAPFERER, Billancourt, France. Filed May 14, 1921. Serial No. 469,672. 11 Claims. (Cl. 288—33.4.)



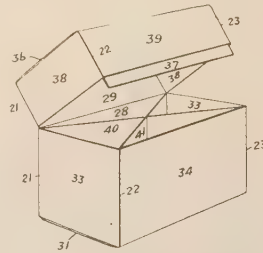
1. In a trailer, a chassis, a traction wheel, a head, a mounting for the traction wheel rotatable in the head, means for resisting the rotation of the mounting, oscillatable means for connecting the head to a chassis frame, and springs connecting the said head and chassis frame.

- 1,421,493. IGNITION AND LIGHTING SWITCH. LEROY D. KELLOGG, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 5, 1916. Serial No. 89,013. 16 Claims. (Cl. 200—4.)



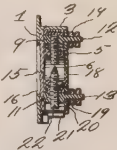
1. An ignition switch and a lighting switch for automobiles, an enclosing casing therefor, and a removable common actuating means for said switches, said means being required to register in irregularly shaped apertures in said casing and said lighting switch before said lighting switch can be effectively operated by said actuating means.

- 1,421,494. PAPER BOX. HARRY C. KESSLER, Warrington, Pa., assignor to Breuker & Kessler Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 11, 1921. Serial No. 451,565. 2 Claims. (Cl. 229—38.)



1. A box having a body and a cover formed from an integral folded paper blank, the back of the cover and the back of the body being formed of a continuous piece so as to form a hinge connection between said body and cover, foldable members for closing one end of the body, and foldable members for closing one end of the cover, one of the foldable members of the cover extending parallel with and beyond the front of the cover and arranged to be tucked in the body in back of the front forming member of the body when the cover is closed.

- 1,421,495. AUTOMOBILE SPARK INDICATOR. JOSEPH L. KLAYON, Jackson, Mich. Filed Mar. 8, 1921. Serial No. 450,644. 1 Claim. (Cl. 175—183.)

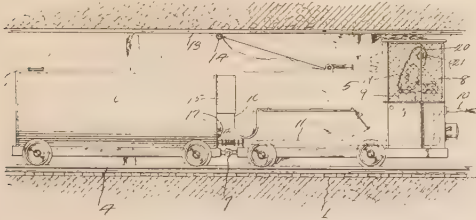


A spark indicating device comprising an elongated member formed from insulating material and provided with a plurality of apertures, axially disposed threaded conductors threaded in the elongated member and having their adjacent ends disposed in the apertures, the upper and lower edges of said elongated member being provided with a plurality of notches, conductor plates disposed in said notches, the outer ends of the conductor screws being threaded through said conductor plates, means whereby said conductor screws may be adjusted in relation to each other, said conductor plates being provided with rearwardly extending binding screws, an auxiliary casing formed from insulating material surrounding the elongated member, said elongated member and auxiliary casing being disposed within a metallic casing, said metallic casing being provided with a horizontal flange and vertical flanges engaging the upper side of the casing and the ends of the elongated member, the lower ends of said vertical flanges being provided with inturned lugs, the lower side of the insulating casing being removable and disposed upon said lugs, and means passing through the flanges of the casing and into the elongated member for holding said member against displacement.

- 1,421,496. MINE FIRE-FIGHTING APPARATUS. JOHN KLEWANECZ, Royalton, Ill. Filed May 25, 1920. Serial No. 384,080. 1 Claim. (Cl. 169—24.)

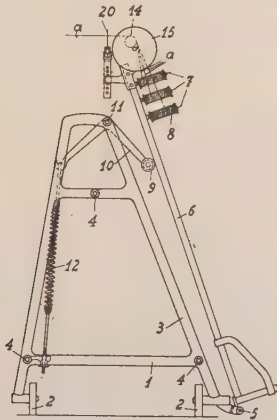
A fire fighting apparatus for mines and the like, said apparatus comprising a motor driven car and a trailed tank adapted to be run into a mine tunnel, a coupling connection between the motor driven car and the trailed tank, a horizontally disposed nozzle extending forwardly from the motor driven car at its forward end at a point spaced from its lower side, a pipe connection between the nozzle and the trailed tank, said pipe connection extending through the motor driven car and entirely housed therein, a flexible connection in said pipe located substantially above the cou-

pling between the motor driven car and the trailed tank and a plurality of hose connections carried by the forward end of the tank and forming means whereby hose lines may



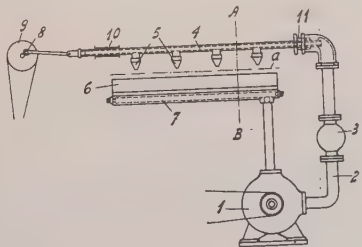
be connected for extinguishing fires in wing tunnels after water from the forwardly extending nozzle has extinguished fire in the main tunnel beyond the entrance to the wing tunnel.

1,421,497. REEL FRAME. HANS KOCH and HANS MÜLLER, Dietikon, Switzerland. Filed Apr. 21, 1920. Serial No. 375,574. 5 Claims. (Cl. 28—54.)



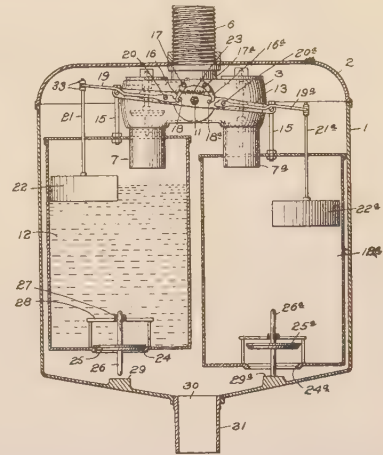
2. A reel frame comprising in combination a frame, a reel carrier movably mounted on said frame springs acting on said carrier, a reed, a roller rotatably mounted for guiding the threads drawn from the reels means actuated by said roller to change the place of passage of the threads through the reed.

1,421,498. DEVICE FOR DAMPENING THE WARP ON LOOMS, ETC. HANS KOCH, Dietikon, Switzerland. Filed Sept. 3, 1921. Serial No. 498,462. 1 Claim. (Cl. 139—82.)



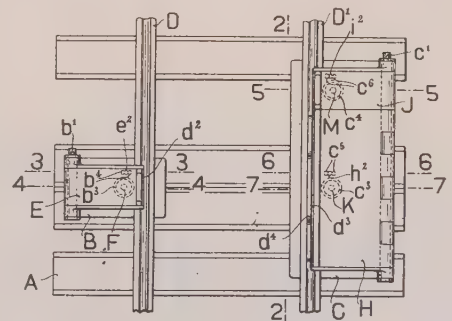
A device for moistening warp threads on looms and the like comprising in combination an air pump, air discharge nozzles connected to said air pump and arranged above the warp threads, air intake means below the warp threads and connected to said air pump, means connected with the delivery end of said air pump to humidify the air discharged from the nozzles, and means to reciprocate the nozzles which deliver the air to the warp threads.

1,421,499. LIQUID-MEASURING APPARATUS. HOWARD R. KOEHLER, Monaca, Pa. Filed June 30, 1921. Serial No. 481,530. 7 Claims. (Cl. 73—28.)



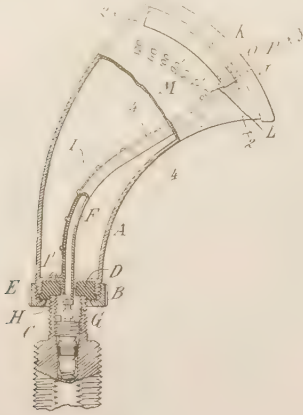
1. In a liquid measuring apparatus, the combination of a manifold having an inlet and two outlets, valves controlling flow through said outlets, a pivoted walking beam, releasable means for holding said beam in alternate positions, a pair of measuring tanks attached one to each end of said beam and each provided with an opening communicating with one of said manifold outlets, each tank being provided with an outlet, valves controlling flow through the tank outlets and operated by movements of said tanks, and means including a float in each tank for controlling said manifold inlet valves and the movements of said tanks.

1,421,500. AXLE-RECORDING DEVICE FOR RAILWAYS. WERNER KOLBE and JOHANNES FRITZEN, Essen-on-the-Ruhr, Germany, assignors to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1921. Serial No. 445,046. 5 Claims. (Cl. 234—12.5.)



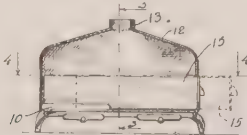
3. An axle recording device for railways comprising electric contact devices adapted to be disposed adjacent the rails of said railway, each contact device including a pivoted flap, a power accumulator disposed under said flap, the rails of said railway being formed with a recess to accommodate the edge of said flap, said flap being adapted to be moved against the tension of its corresponding power accumulator by the wheels of a car passing over said railway, electrically operated recording apparatus connected to said contact devices and adapted to function when said contact devices are operated.

1,421,501. GAUGE. HENRY P. KRAFT, Ridgewood, and MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Mar. 25, 1916. Serial No. 86,733. 4 Claims. (Cl. 73-109.)



1. A pressure gauge having a Bourdon tube and a visual indicating part adapted to be directly engaged by said tube and moved to an indicating position, said indicating part and tube being disconnected, whereby the tube may return to its initial position without moving said indicating part.

1,421,502. BATH-CABINET VAPORIZER. JOHN F. KRUSE, Indianapolis, Ind. Filed Oct. 31, 1921. Serial No. 511,679. 2 Claims. (Cl. 126-350.)



2. A vaporizer for vapor baths comprising a frame, a casing secured to said frame, an end opening in said casing, a pan slidable in said opening, guides for said pan, a nipple in the top of said casing, a pipe slidably connected to said nipple, and a second pipe slidably connected with the first named pipe.

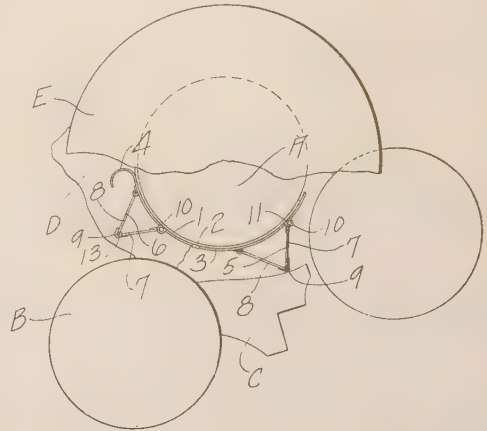
1,421,503. BLEACHING POWDER. EDWARD THORNDIKE LADD and EBEN CHARLES SPEIDEN, Niagara Falls, N. Y., assignors to Isco Chemical Company, Inc., Niagara Falls, N. Y., a Corporation of New York. Original application filed Mar. 5, 1921, Serial No. 449,901. Divided and this application filed Feb. 7, 1922. Serial No. 534,764. 1 Claim. (Cl. 23-13.)

The herein described new bleaching powder consisting of a screened chlorinated lime hydrate from which, before chlorination, a substantial proportion of its smaller sized naturally occurring particles had been further removed, substantially as described.

1,421,504. INDICATOR AND CALIPER GAUGE FOR CANE MILLS. WILLIAM LANGMEIER, St. Louis, Mo. Filed May 18, 1921. Serial No. 470,703. 5 Claims. (Cl. 33-182.)

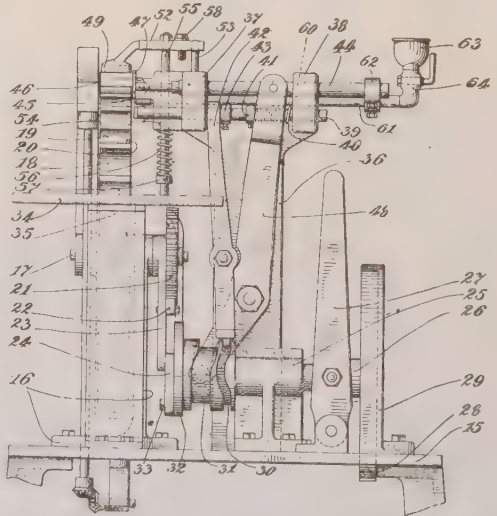
1. An indicator and gauge for the turn plate of cane mills, comprising a flexible base strip; a flexible indicator slide thereon and adapted to slide thereover and parallel thereto; and two sets of binged caliper arms mounted over the indicator slide at opposite ends thereof, each set comprising two arms hingedly connected together at one

end and having their other ends hingedly connected to the base strip and to the indicator slide, respectively, the two



sets of caliper arms being thus adapted to spread and close equally as the indicator slide moves back and forth over the base strip.

1,421,505. DATE-DEPITTING MACHINE. CHESTER S. LEONARD, Lansdowne, Pa. Filed Sept. 1, 1921. Serial No. 497,463. 8 Claims. (Cl. 146-6.)

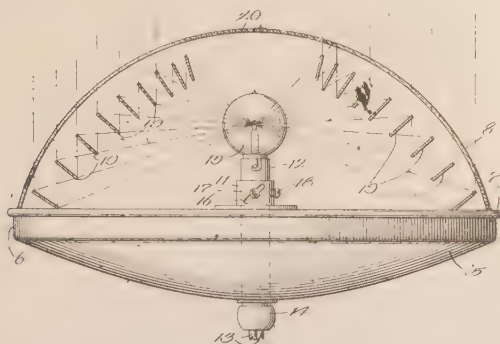


1. In a fruit stoning machine, the combination with a rotary fruit conveyor having recesses receptive of the fruit, of a power driven reciprocating plunger adapted to pierce the fruit in a horizontal plane and expel the stone, and a single knife combined with said plunger adapted to slit the fruit on one side only.

1,421,506. HEADLIGHT. ALEXANDER S. LIMPBERT, Pittsburgh, Pa. Filed July 17, 1920. Serial No. 396,895. 4 Claims. (Cl. 240-41.)

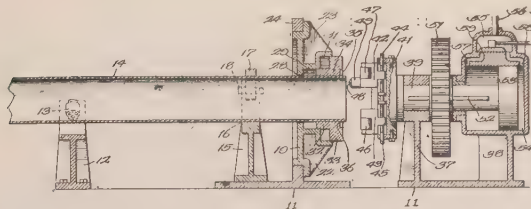
1. An automobile headlight comprising a source of light, a series of concentrically arranged annular reflectors adapted to reflect in substantial parallelism intercepted light rays emanating at various angles from said source, said reflectors being of progressively diminishing diameters from the rear to the front of said headlight and

each being respectively disposed at different angles with respect to said source of light and the front reflector being



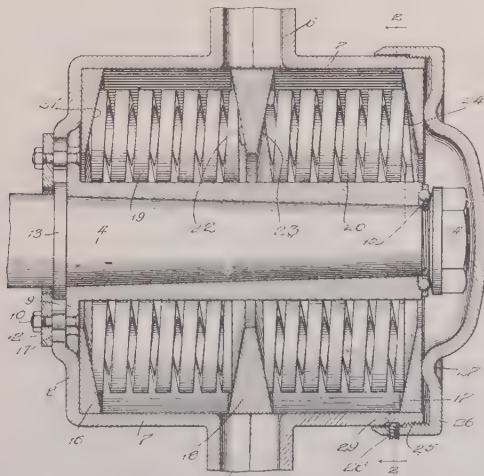
in advance of said light and the rear reflector being behind said light.

1,421,507. METHOD OF LAPPING METAL PIPES. SAM J. LINDBERG, Chicago, Ill., assignor to Crane Company, Chicago, Ill., a Corporation of Illinois. Filed June 21, 1920. Serial No. 390,428. 12 Claims. (Cl. 29—156.)



1. The method of lapping pipes, which consists in exerting a pressure against the end of a pipe to upset and thicken the walls thereof, embracing the pipe near said end to limit the length of the upset, exerting a pressure radially and longitudinally against said thickened walls to displace the metal thereof, and first yieldably and then positively opposing the movement of the metal under the action of said pressure to thereby cause the metal to flow into the required flange form.

1,421,508. RESILIENT WHEEL FOR VEHICLES. ROBERT LINN, Chicago, Ill. Filed July 11, 1919. Serial No. 310,025. 8 Claims. (Cl. 152—45.)



1. A resilient wheel for vehicles having coiled compression springs engaging longitudinally with the axle,

300 O. G.—3

and having means for transmitting the load from the axle longitudinally through said springs to the outer portions of the wheel.

1,421,509. ILLUMINATING APPARATUS. JOHN A. Lockwood, Fillmore, N. Y. Filed Jan. 31, 1921. Serial No. 441,329. 2 Claims. (Cl. 240—106.)



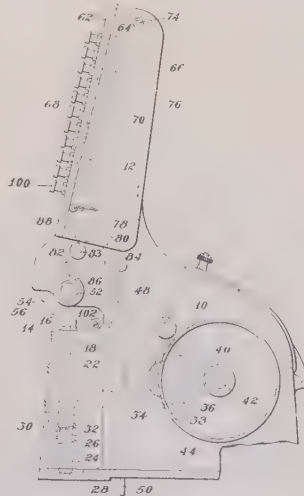
2. In combination, a lens of varying translucency and a source of light, the translucency of the lens being such that the amount of light passing through the lens is substantially equal at any two given points in a plane at right angles to a perpendicular passing through the lens and light and at that side of the lens remote from the source of light.

1,421,510. VIOLIN BOW. GUSTAVE M. LOTH, Chicago, Ill. Filed Oct. 24, 1921. Serial No. 510,020. 5 Claims. (Cl. 84—282.)



2. A bowing device for violins comprising a mouth-piece adapted to be grasped by the player's teeth, and bow-supporting means connected to the outer end of the mouth-piece.

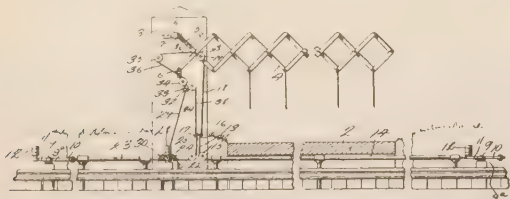
1,421,511. STAMPING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 1, 1918. Serial No. 231,842. 12 Claims. (Cl. 101—18.)



1. In a stamping machine, a work support, a rotatable stamping member co-operating with the support and having a plurality of impression surfaces, a series of mov-

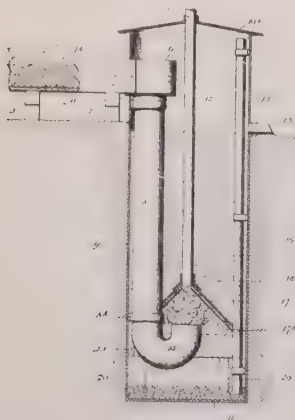
able keys of equal length, corresponding to the impression surfaces, a lever with which the keys contact at different distances from its fulcrum, and connections between the lever and stamping member arranged to rotate said member positively to bring the proper impression surfaces into and out of their working positions.

1,421,512. TRAIN-OPERATED GATE. HENRY CLAY McCONNELL, Grand River, Iowa. Filed Mar. 8, 1921. Serial No. 450,545. 1 Claim. (Cl. 246—311.)



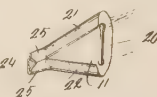
A train operated gate, said gate comprising a lazy tong supported by a post and horizontally disposed, cables having their ends secured to the lazy tongs adjacent their rear pivotal point, one of said cables passing rearwardly over a pulley and downwardly over a pulley and leading to an operating lever adapted to be engaged by a train, the other cable leading away from the supported end of the lazy tongs and over a pulley and downwardly and to a lever located remotely from the post and adapted to be operated by a train, a lever pivoted adjacent the post and adapted to be operated by a train, a cable connected to said last named lever and passing between horizontally disposed pulleys and upwardly and having its end connected to the rearwardly extending cable and forming means whereby upon a downward pull on the same the lazy tongs will be folded.

1,421,513. AUTOMATICALLY-OPERATING HYDRO-PNEUMATIC WATER-LIFTING APPARATUS. ROBERT B. McCONNEY, Denver, Colo., assignor of sixteen and two-thirds one-hundredths to De Witt Clinton Gates, Denver, Colo. Filed Apr. 26, 1921. Serial No. 464,513. 11 Claims. (Cl. 103—84.)



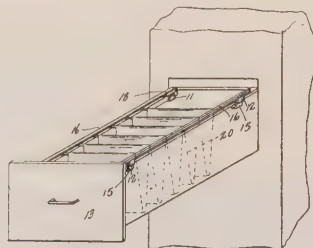
1. A hydro-pneumatic water lift, comprising a water conduit, means connected therewith for commingling air and water in said conduit, and means at the end of said conduit whereby the air raises a portion of said water; a hood in said casing in which said commingled air and water discharges and a protector plate inside of said hood.

1,421,514. TROUSERS SUPPORTER. WILLIAM M. McFARLAND, Norwich, N. Y., assignor of one-fifth to William Reed Turner, one-fifth to Warren E. Eaton, one-fifth to Melvin C. Eaton, and one-fifth to Burton J. Fernald. Filed Feb. 17, 1920. Serial No. 359,310. 1 Claim. (Cl. 24—222.)



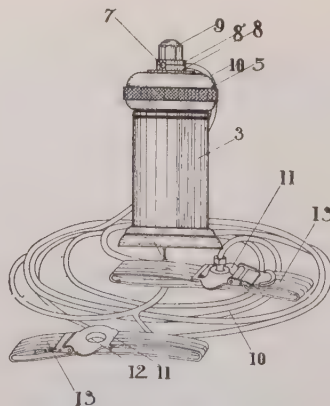
A fastening device for adjustable garment supporters comprising a flat, substantially triangular plate, the sides of said plate being bent inwardly and their edges rolled upon themselves to provide button engaging flanges spaced from each other and from the inner side of the plate, said plate having a closed flat apex at the meeting edges of the flanges, the opposite open end of the plate being adapted to receive various sized buttons and converging from end to end to provide a wedge shaped slot for the engaged button.

1,421,515. FILING DEVICE. RICHARD McKNIGHT, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 444,394. 7 Claims. (Cl. 129—16.)



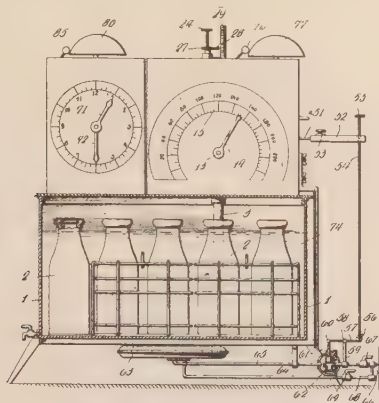
1. The combination with a filing receptacle, of supporting clips fitting over and detachably engaging the sides thereof; and guides detachably supported by said clips, substantially as described.

1,421,516. MAGNETIC HEALING APPARATUS. SHINTARO MAESHIMA, Tokyo, Japan. Filed May 2, 1918. Serial No. 232,184. 2 Claims. (Cl. 174—88.)



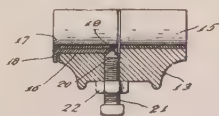
1. A therapeutic appliance comprising a metallic casing, a mixture of magnetite, antimony sulphide and charcoal contained within said casing, copper in rod form passing through said mixture, terminal plates for application to the body and electrical connections from said plates to the casing, substantially as described.

1,421,517. AUTOMATIC ALARM MECHANISM FOR PASTEURIZING MILK. PHILIP MALCAMP, New Orleans, La. Filed Jan. 9, 1922. Serial No. 528,121. 6 Claims. (Cl. 236-94.)



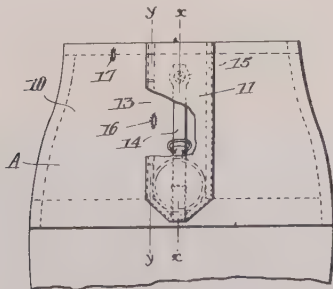
1. In a pasteurizing apparatus, the combination of a liquid container in which the material to be pasteurized is placed; means for heating said container comprising a fuel supply; an expansible and contractible thermostatic element adapted to be moved by changes in temperature of the material being treated; an alarm mechanism controlled by the movements of said thermostatic element; means to regulate said fuel supply controlled by said thermostatic element; and a second alarm mechanism adapted to be set off from said first named alarm mechanism, substantially as described.

1,421,518. ADJUSTABLE THRUST BEARING. CLAUDE A. MARIS, Terre Haute, Ind. Filed Jan. 7, 1921. Serial No. 435,589. 5 Claims. (Cl. 64-25.)



1. As an article of manufacture, a bearing cap comprising a main body having a shaft bearing extending through a portion of its length, a cooperating half-bearing bushing axially movable in the main body, and means for axially adjusting said bushing, said means comprising a temper screw cam mounted in the main body and cooperating with a cam surface formed on the bushing.

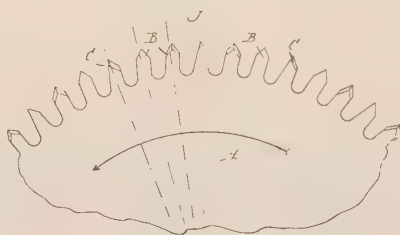
1,421,519. WATCH POCKET FOR OVERALLS, WORKING SHIRTS, AND THE LIKE. CHARLES TOLMIE MASSON, Wood Bay, Manitoba, Canada. Filed Aug. 6, 1921. Serial No. 490,309. 2 Claims. (Cl. 2-154.)



2. The combination with a garment of the character described, of a relatively long and narrow watch pocket,

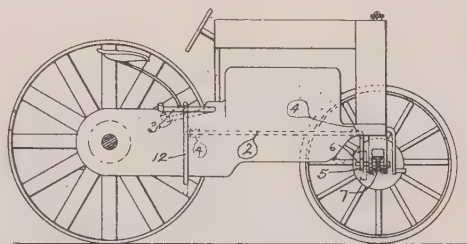
and a retaining strip in the pocket secured to the inner end of the pocket and extending to a point adjacent to the outer end of the pocket, and being releasably connected near the outer end to the garment, said strip being designed to extend through the ring on a watch and being of sufficient length to permit the watch to be moved up and down in the pocket, the watch in its uppermost position in the pocket being visible through the top thereof.

1,421,520. SAW. JULIUS GEORGE MATTSO, Heretaunga, New Zealand. Filed Jan. 4, 1922. Serial No. 526,890. 2 Claims. (Cl. 143-133.)



1. A saw blade having pairs of cross-cut teeth and rip teeth alternating with the pairs of cross-cut teeth, each rip tooth having a point at its forward edge and tapering inwardly from the point to its rear edge and being beveled on one side face, and on the opposite side to the succeeding rip tooth.

1,421,521. AUTOMATIC CLUTCH RELEASE. GEORGE E. MAXWELL, New Ulysses, Kans. Filed Aug. 10, 1920. Serial No. 402,713. 2 Claims. (Cl. 180-82.)

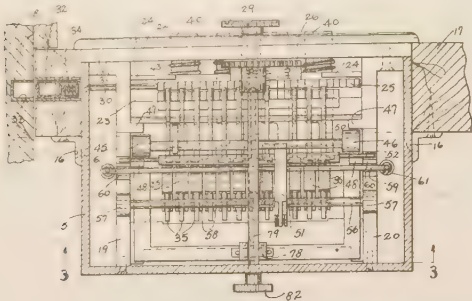


1. A safety attachment for tractors, comprising a rock-shaft, a front arm on said rock-shaft, a horizontal slot in the end of said front arm, an elongated pin adapted to form a pivot for the front axle and project through said slot, a downwardly arched rear arm on the rock-shaft extending parallel to the front arm, said rear arm being bent upwardly and having a hook at the end of the upwardly bent portion, for engagement with the clutch pedal lever of the tractor.

1,421,522. LOCK. GEORGE F. MAYER, Chicago, Ill. Filed Oct. 15, 1920. Serial No. 417,070. 47 Claims. (Cl. 70-54.)

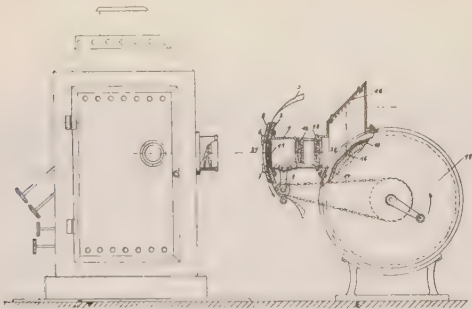
1. A lock comprising a slidably mounted bolt; manually operable means for moving said bolt; a longitudinally movable tumbler mounted adjacent to said bolt adapted, by a movement across the bolt, to lock the bolt

against movement; means for moving the tumbler into locking position; and similarly actuating independently



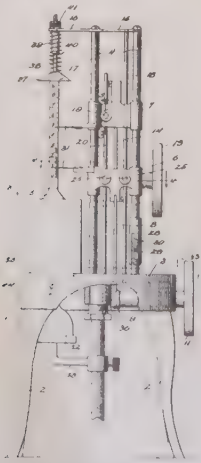
acting means for rocking the tumbler out of locking position, substantially as described.

1,421,523. CINEMATOGRAPHIC APPARATUS. EMIL MECHAU, Rastatt, Germany. Filed Aug. 20, 1921. Serial No. 493,979. 3 Claims. (Cl. 88-24.)



1. In cinematographic projectors with continuously moving flexible picture band in combination, a projection lens with spherically curved field of image, a lens system with at least one torical surface, arranged near to the picture band between the latter and the projection lens and adapted to produce of the cylindrically curved picture band a virtual image of spherical curvature, and a cylindrically curved guide for the flexible picture band.

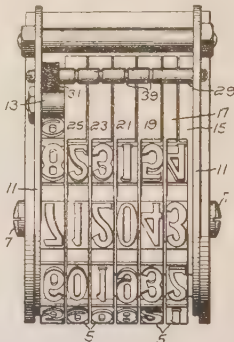
1,421,524. BUTTER-FAT GAUGE. JOHN A. MEEKER, Potsdam, N. Y. Filed Apr. 16, 1921. Serial No. 462,009. 12 Claims. (Cl. 73-51.)



2. A gauge comprising a support, vertical guides carried thereby, a cross head carrying a pointer and adapted to reciprocate on the said guides, a second pointer ad-

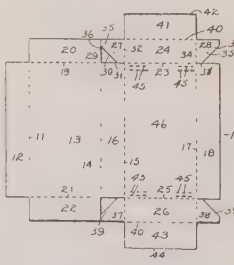
justable with relation to the first pointer, rotary means fixed to the support for adjusting the cross head, and means carried by the cross head for adjusting the second pointer, and supplementary friction means for holding the pointers in set position.

1,421,525. NUMBERING HEAD. CHARLES A. MEISEL, Boston, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 28, 1921. Serial No. 465,144. 3 Claims. (Cl. 101-85.)



1. A numbering head comprising a series of type wheels for the powers of ten, ratchets and pawls for operating the same and shiftable means adapted to be brought into cooperation with one or another pawl for holding it from its ratchet.

1,421,526. FOLDING BOX. CHARLES C. MILLER, Fort Wayne, Ind. Filed Apr. 16, 1921. Serial No. 462,002. 4 Claims. (Cl. 229-30.)

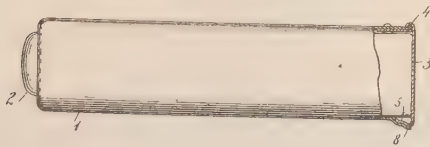


1. A folding box comprising a bottom section and a cover section, the bottom section having two side flaps and two end flaps each foldable on the bottom section, each end flap being hinged at its opposite ends to the side flaps and the hinges tending to draw all said flaps upwardly and inwardly relatively to the bottom section and each end flap being of width sufficient to be folded upon itself and to frictionally engage and brace against the bottom section for locking the said end flaps and side flaps in substantial upright position relatively to the bottom section.

1,421,527. FIRE-EXTINGUISHING COMPOSITION AND PROCESS OF PREPARING SAME. JOSEPH BRUCE MILLER, Indianapolis, Ind. Filed Feb. 4, 1922. Serial No. 534,192. 3 Claims. (Cl. 23-5.)

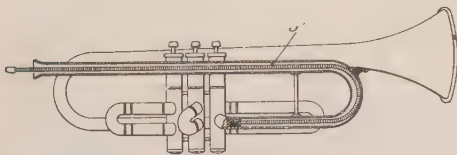
2. A fire extinguishing composition comprising a combination of chemical elements producing, after chemical reaction with each other, calcium sulphate, sodium chloride, and sodium sulphate, intermixed with surplus of hydrated lime, sodium bicarbonate, silica, and rock salt, all inter-mixed and in powder form, substantially as set forth.

1,421,528. FLASH LIGHT. LOUIS A. MILLER, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Filed July 14, 1921. Serial No. 484,589. 3 Claims. (Cl. 240—8.5.)



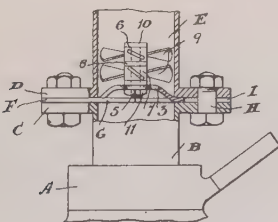
1. In a flashlight, the combination with the case, and the cover hinged at one side to the case and latch mechanism for holding the cover to be case, and comprising a tongue on the cover and a catch on the case wall, that portion of the wall carrying the catch being offset outwardly beyond the plane of the wall thereby to leave the interior of the case unobstructed by the latch mechanism.

1,421,529. CLEANING DEVICE. ROSS MILHOUSE, Los Angeles, Calif. Filed Sept. 30, 1921. Serial No. 504,320. 1 Claim. (Cl. 15—160.)



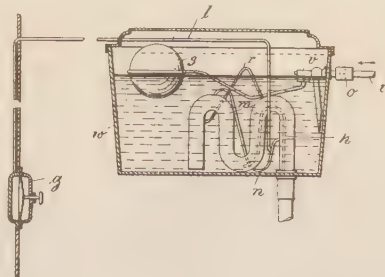
A wind musical instrument cleaner comprising a relatively long resilient lineal member composed of a spiral spring having its adjacent windings in contact, and a cleaning member formed of a wire doubled upon itself, bristles clamped between the doubled portion of the wire, and means encircling a portion of said wire for wedging the same within the coils of said lineal member.

1,421,530. CARBURETOR ATTACHMENT. FRANK MOORE and ALEXANDER GRAY, Toronto, Ontario, Canada. Filed Jan. 24, 1921. Serial No. 439,359. 2 Claims. (Cl. 48—180.)



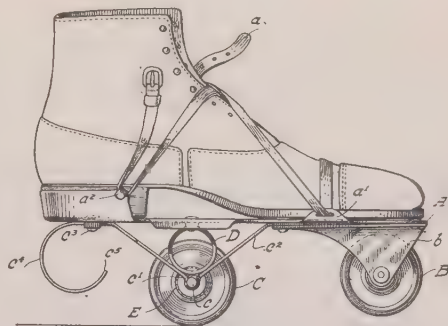
2. In combination an intake pipe for internal combustion engines, and a rotary mixing device comprising two notary devices of substantially the same diameter, adapted to be mounted in said pipe and to have the desired clearance therewith, and to be actuated by a common current of flowing fluid to essentially revolve at different rates of speed, each consisting of a hub; a common spindle on which said hubs rotate, and a set of vanes carried by each of the said hubs, as set forth and for the purpose specified.

1,421,531. DOUBLE-KNEE SIPHON. FERDINAND MORAS, Sommerfeld, Germany. Filed Sept. 8, 1920. Serial No. 409,028. 2 Claims. (Cl. 4—5.)



1. A double acting siphon, comprising two U-shaped members and a member connecting the lower end of their adjacent legs, said siphon being adapted to be operated by forcing out the air, in combination with the push button arrangement, adapted to effect the starting of the operation of said siphon, an air pressure balance pipe connecting the air spaces of said siphon with each other and serving to balance the air pressure within the siphon and an auxiliary siphon serving to remove the balance of water, accumulating in the connecting member of the main siphon.

1,421,532. ROLLER SKATE. JOHN MUCK, Milwaukee, Wis. Filed Nov. 17, 1919. Serial No. 338,486. 3 Claims. (Cl. 46—51.)

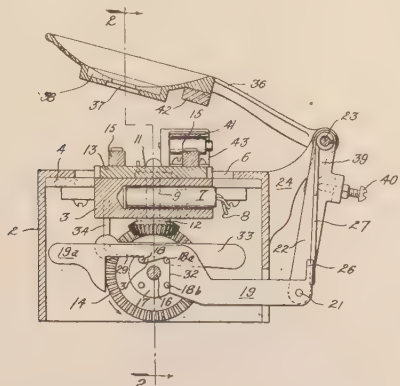


1. A roller skate comprising a plate for the reception of the foot, a pair of wheels one at each side of the said plate, an axle upon which the said wheels are mounted, and yielding bearings for supporting the axle, the said yielding bearings comprising a spring strip attached at its forward end and slidably engaging the foot plate of the skate at the other.

1,421,533. FRAME SAW. GOTTFRIED MÜLLER, Sumiswald, Switzerland. Filed Dec. 3, 1920. Serial No. 428,039. 1 Claim. (Cl. 143—60.)

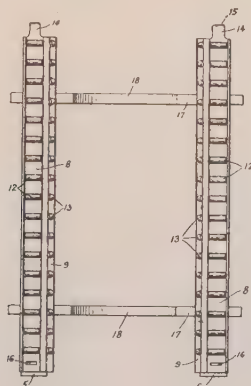
A transportable saw mill mechanism of the character set forth, comprising in combination, a saw carrying frame, a power shaft with a connection to said saw frame for vertically reciprocating the latter, a supporting board, means thereon for supporting and guiding said saw frame, shaft mounting means associated with said board, and a

- 1,421,539. ELECTRIC FRUIT-MARKING MACHINE. LEWIS NEUENSCHWANDER, Los Angeles, Calif., assignor to Electric Fruit Marking Co., San Francisco, Calif., a Corporation of California. Filed June 3, 1919. Serial No. 301,531. 15 Claims. (Cl. 101—35.)



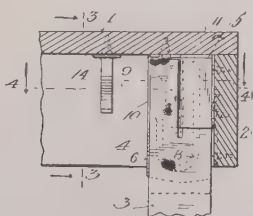
1. A fruit marking machine comprising a disk, means for mounting the disk for rotation in a fixed plane and about a fixed axis, dies on said disk, a movably mounted arm arranged adjacent the disk, and means operated by said arm for rotating said disk to place one of said dies in marking position.

- 1,421,540. ANTIFRICTION SKID. GEORGE L. NOLL, Madison, N. J. Filed Dec. 5, 1921. Serial No. 519,881. 4 Claims. (Cl. 193—41.)



1. A skid comprising a pair of skid beams, cross bars connecting therebetween, means secured near the ends of said skid beams adapted to engage a clamping wedge, metal channel strips attached to the upper surfaces of said beams, a plurality of spaced rolls rotatable in said channels, and hooks at one end of the strips adapted to engage oblong recesses formed through the other end of said strip.

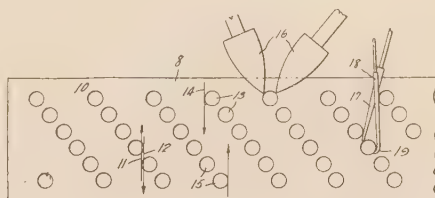
- 1,421,541. FOLDING TABLE. LEWIS NOLTY, Lancaster, Pa. Filed Mar. 11, 1922. Serial No. 542,996. 7 Claims. (Cl. 45—48.)



1. In a folding table, the combination with the top of a fixed depending cruciform member thereon consisting of

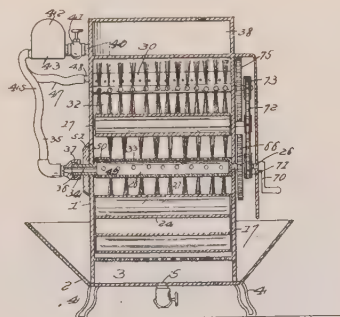
intersecting plates one of which has a U-slot, and a table leg slotted to engage said plates, and having a pin engaging the U-slot.

- 1,421,542. RADIATOR. EMIL OCHSNER, Sutton, Nebr. Filed June 10, 1920. Serial No. 387,957. 1 Claim. (Cl. 257—129.)



A radiator for automobiles having headers and water tubes connecting the same, the tubes being disposed in banks or series arranged in or in like relation to the path of movement of the radiator, with adjacent tubes in each bank overlapping each other transversely with relation to planes parallel with the path of movement and with the front and rear ends of adjacent banks or series overlapping each other transversely with relation to planes parallel with the path of movement, the banks being spaced transversely to give access for repair to all of the tubes in each series.

- 1,421,543. DISHWASHING MACHINE. CHARLE OLSON, Lafayette, Minn. Filed June 5, 1920. Serial No. 386,694. 4 Claims. (Cl. 15—74.)

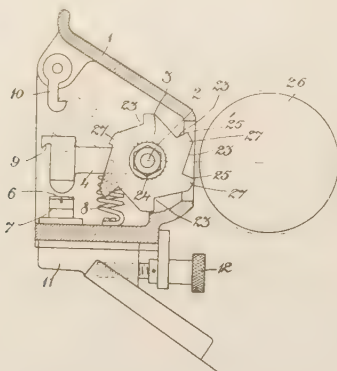


3. In a washing apparatus for the purpose indicated, a base, a housing supported on the base and having a water reservoir, dish washing means including rotary fountain brushes mounted in the housing, a spray pipe above the dish washing means, an auxiliary chamber having a valve controlled connection with the reservoir, and means connecting the auxiliary chamber and the respective rotary brushes and the spray pipe.

- 1,421,544. MEANS FOR AUTOMATICALLY CUTTING OFF THE FEED MOTION OF MACHINE TOOLS. NILS JOSEF OLSSON, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden, a Corporation of Sweden. Original application filed Aug. 1, 1918, Serial No. 247,784. Divided and this application filed Aug. 23, 1919. Serial No. 319,424. 2 Claims. (Cl. 51—185.)

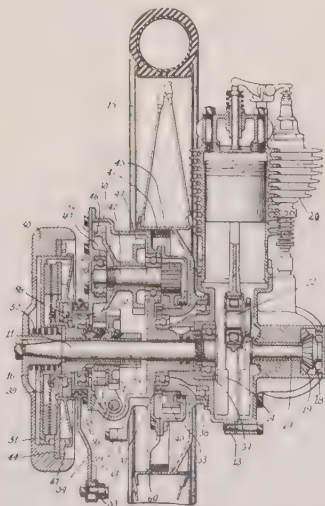
1. The combination in an apparatus for cutting off the feed motion of a machine tool when the work has reached its predetermined size, of controlling means therefor, and a trip lever adapted to co-operate with said means, comprising an actuating arm and a work-engaging disc having teeth of different radial length, said disc angularly adjust-

able relatively to said arm to bring either of said teeth into position to engage the work and hold the arm out of engagement with the controlling means until the work has



reached the required size and then to clear the work and permit the arm to actuate said means, thereby stopping the feed motion of the machine tool.

1,421,545. MOTOR VEHICLE. ALDEN E. OSBORN, New York, N. Y. Filed Sept. 1, 1920. Serial No. 407,373. 2 Claims. (Cl. 180—55.)

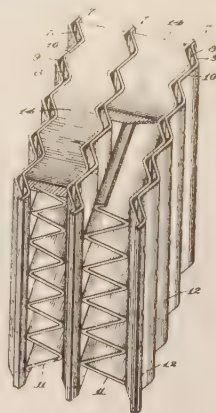


1. In a motor vehicle the combination of a traction wheel, a hub for said wheel, a supporting member passing through said wheel hub and having a bearing for said hub, a main shaft passing through said bearing, a propelling motor connected to said main shaft at one side of said wheel, a secondary shaft substantially parallel with said main shaft, a gear on said secondary shaft, a gear on the wheel hub and intermeshing with the first named gear, and controllable means for rotating said secondary shaft from said main shaft or for allowing said main shaft to turn independently of said secondary shaft, said secondary shaft, said gearing and said controllable means being on the other side of the said wheel from the said motor connection to the main shaft.

1,421,546. RADIATOR. DAVID O. PARKIN, Venice, Calif. Filed Apr. 28, 1920. Serial No. 377,823. 3 Claims. (Cl. 257—130.)

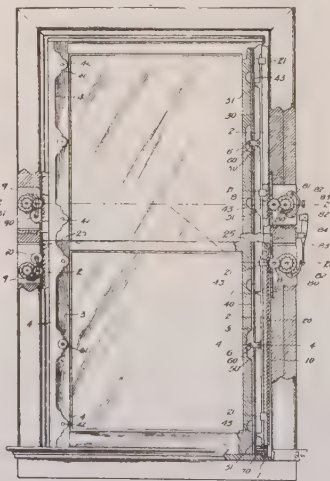
1. In a radiator, a pair of complementary blanks having vertical V-shaped corrugations, said blanks arranged in

nested engagement with each other with one wall only of each of the corrugations on one blank abutting against the



corresponding corrugation on the other blank; the other opposed walls of the corrugations being spaced apart to form a vertical water space therebetween.

1,421,547. WINDOW-OPERATING MEANS. JESSE PARSONS, Seattle, Wash., assignor to Parsons Appliance Company, Seattle, Wash. Filed June 9, 1919. Serial No. 302,655. Renewed Nov. 1, 1920. Serial No. 421,156. 8 Claims. (Cl. 20—42.)

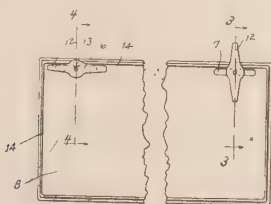


1. The combination with a window sash of a permanently projecting guide block pivoted at one end of the sash and adapted to enter the sash retaining groove of the window frame and to permit swinging of the sash thereon as upon a pivot, and a guide strip aligned therewith at the same side of the sash and adapted to be projected and withdrawn at will, to enter and withdraw it from the sash retaining groove of the window frame.

1,421,548. FASTENER FOR LICENSE PLATES. GEORGE FENDERGAST and RAYMOND F. ETHIER, Milwaukee, Wis. Filed Apr. 13, 1921. Serial No. 461,065. 7 Claims. (Cl. 40—125.)

2. A fastening device comprising a T-shaped member of substantially uniform thickness, a spring in the form of a

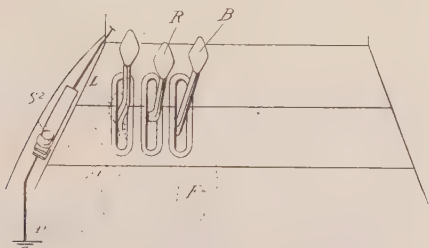
bow secured intermediate its ends upon the shank of the T-shaped member and transversely of the head thereof,



and means for preventing rotation of the spring relative to the T-shaped member.

1,421,549. LIGHTING SYSTEM FOR AUTOMOBILES.

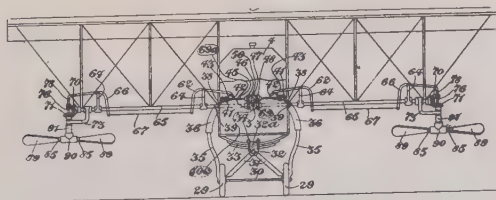
WILLIAM FRANKLIN PENROD, Blanchester, Ohio, assignor of two-thirds to Anthony J. Wissel and Max S. Wise, both of Cincinnati, Ohio, partners doing business as Auto Sales and Service Company. Filed Aug. 15, 1917. Serial No. 186,315. 3 Claims. (Cl. 171-97.)



3. In an electric lighting system for automobiles, the combination with a variable potential generator, a head-light lamp; an electric circuit connecting said generator and said lamp; voltage reducing means in said circuit for reducing the voltage supplied to said lamp; and a gear control pedal biased to high gear position; of control means for rendering said voltage reducing means ineffective; said control means being biased to inoperative position and situated adjacent to said gear pedal, and being operable alternately with said pedal by the same foot.

1,421,550. AEROPLANE. CARL PETERS, St. Louis, Mo.

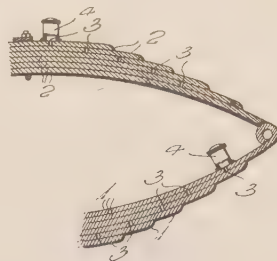
Filed June 11, 1918. Serial No. 239,382. 2 Claims. (Cl. 244-15.)



1. A flying machine comprising a tractor propeller, propellers disposed adjacent to the ends of its sustaining surface or surfaces and rotating in a plane substantially parallel thereto, mechanism under control of the operator for altering the pitch or angle of the blades of said propellers to lift the machine vertically, a member pivotally suspended from the machine adapted to operate said mechanism in response to lateral inclination of said surface or surfaces to correct such inclination, sustaining pro-

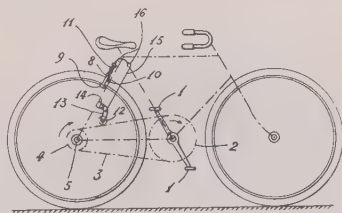
pellers disposed beneath the tail of the machine and rotating in a plane substantially parallel thereto, means for altering the pitch or angle of the blades of said tractor during flight to control the speed of the machine independent of the speed of the engine and automatic means for reducing the pitch or angle of the blades of said sustaining propellers during movement of the machine by said tractor.

1,421,551. SPRING LUBRICATOR. JAMES F. A. PHILLIPS, Trenton, N. J. Filed Sept. 29, 1921. Serial No. 504,029. 1 Claim. (Cl. 267-50.)



A leaf spring comprising a plurality of leaves contacting with each other throughout their widths, said leaves having drilled therethrough a series of circular longitudinally spaced oil holes each of which extends from one flat side of a leaf to the other, and an oil cup for supplying oil to one of the endmost of the series of oil holes, said cup having a flat discharge end secured directly and integrally to the exposed flat side of one of the leaves around its oil hole to reinforce this leaf and overcome the necessity of weakening the leaf by drilling a relatively large hole therein for attaching the cup; the ends of all of said oil holes except the end communicating with said oil cup being entirely closed by the adjacent spring leaves, whereby the flow of oil is dependent upon the opening and closing action of the leaves during operation of the spring.

1,421,552. REAR BRAKE FOR MOTOR AND OTHER CYCLES. FRITZ PLETSCHER, Lucerne, Switzerland. Filed Sept. 2, 1921. Serial No. 498,025. 3 Claims. (Cl. 192-5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



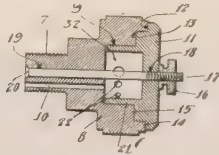
1. In the herein-described brake for motor and other cycles fitted at the rear of the cycle frame and comprising spring-controlled jaws adapted to act on the rim of the hind-wheel, the combination, with the pedals and chain-drive of the cycle, of an intermediate chain-wheel meshing with the driving chain, means to support the said chain-wheel and allow it to rotate in a forward direction only, gearing to connect the movable support with the brake, and means to actuate the gearing and the brake when the pedals are turned in a backward direction, all as and for the purpose set forth.

1,421,553. GUN SIGHT. CHARLES POHL, Los Angeles, Calif. Filed Apr. 21, 1920. Serial No. 375,451. 2 Claims. (Cl. 33—51.)



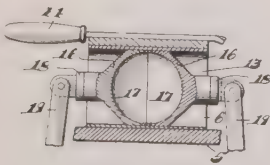
1. A gun sight comprising a bar adapted to be positioned transversely of a gun barrel and formed with a series of sight openings arranged in a row extending on the opposite sides of the center and radially from a point on a line passing through the center of the bar at right angles thereto.

1,421,554. AUXILIARY INLET DEVICE FOR INTERNAL-COMBUSTION ENGINES. CHARLES POHL, Los Angeles, Calif. Filed Aug. 10, 1920. Serial No. 402,587. 3 Claims. (Cl. 251—92.)



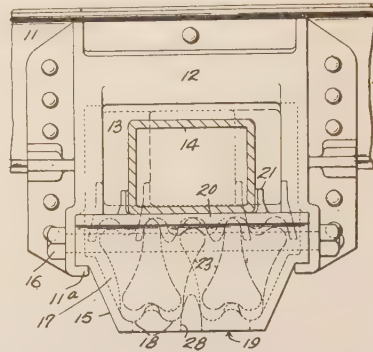
1. In an auxiliary inlet device for internal combustion engines, the combination of a member containing a plurality of intake ports and having an outlet port adapted to communicate with the intake manifold of an engine, and a valve member having two series of ports, the ports of each series being of different diameters and the ports of one series corresponding in diameter with the respective ports of the other series, and said valve member being adjustable to different positions and the ports being spaced so that when the valve member is in some positions ports of like diameter will register with the intake ports and so that when the valve member is in a different position ports of different diameters will register with the intake ports.

1,421,555. POP-CORN MOLD. NATHANIEL B. POST, Chicago, Ill. Filed Oct. 29, 1919. Serial No. 334,131. 6 Claims. (Cl. 107—16.)



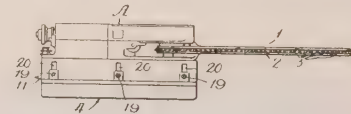
1. A mold comprising a support; a mold member rigidly mounted on said support and provided at one side with a mold recess therein open at its ends; a mold board pivotally mounted on said support to swing into and out of operative position with relation to said first mentioned mold member; a mold member secured to said mold board and provided with a mold recess cooperating with said first named recess to form a mold chamber open at its opposite ends; a pair of oppositely arranged mold heads slidably mounted in said mold chamber; and means for simultaneously forcing said mold heads toward and away from each other, substantially as described.

1,421,556. COUPLING-CENTERING DEVICE. ROBERT E. POWERS, Montreal, Quebec, Canada. Filed Dec. 3, 1920. Serial No. 428,019. 9 Claims. (Cl. 213—42.)



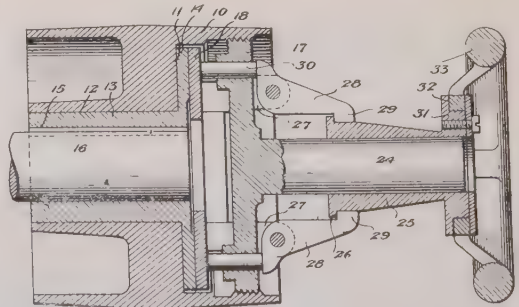
1. A coupler centering device comprising a U shaped throat, a coupler support connected between the arms of the throat, a coupler supporting carriage, rockers supporting the carriage on the support, and a bolt connecting the arms of the throat and holding the support and the rockers.

1,421,557. SUPPORT FOR MINING MACHINES. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1920. Serial No. 379,210. 6 Claims. (Cl. 262—30.)



1. In combination with a mining machine having suitable cutting mechanism for cutting a continuous kerf, an auxiliary support adapted to be connected to said mining machine, to carry the latter with its cutting mechanism at a higher level, said support comprising two members having telescoping side walls, means for adjusting the height of said members, comprising a plurality of lifting devices, and means for actuating said lifting devices simultaneously.

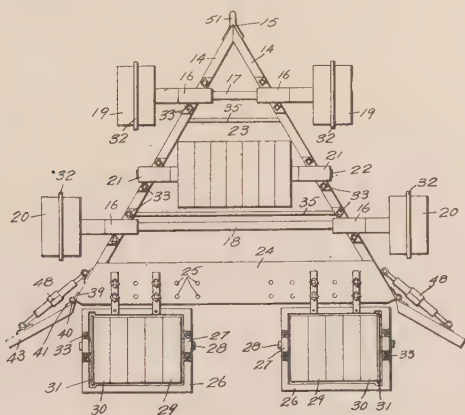
1,421,558. FRICTION-CLUTCH PULLEY. ALOIS L. PREIMESBERGER, Menasha, Wis. Filed July 31, 1920. Serial No. 400,555. 1 Claim. (Cl. 192—68.)



In a friction clutch, a pulley, a plurality of clutch disks associated with the pulley for rotation therewith, a shaft, an additional clutch disk fixed upon said shaft and interposed between the aforementioned disks upon which said pulley is loosely mounted, said pulley including

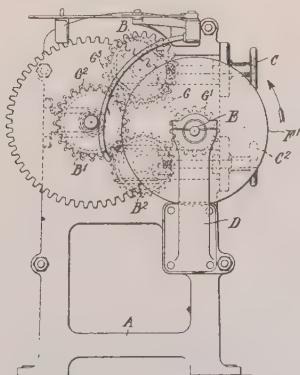
an end wall, a shaft projecting from said end wall, a tapered collar slidable on said second mentioned shaft, means for adjusting said collar, plungers movable in bores provided in said end wall, and levers pivoted upon the end wall and actuated by said collar to move the plungers into engagement with the adjacent disk, whereby all of said disks are operatively associated to fix said pulley to the shaft.

1,421,559. GRADING MACHINE. EDWARD PRENDERGAST, St. Louis, Mo. Filed May 10, 1920. Serial No. 380,019. 4 Claims. (Cl. 37—5.)



1. A grading machine comprising an A frame formed of channels, a plurality of cutter blade sections secured to the underside of the said frame, wheels adjustably carried by the frame and rollers adjustably carried by the frame, and a cutter blade mounted on each side of the rear end of the frame.

1,421,560. MACHINE FOR BREAKING COCOA CAKE OR THE LIKE. WILLIAM EDWARD PRESCOTT, London, England, assignor to Joseph Baker and Sons Limited, London, England. Filed July 16, 1920. Serial No. 396,734. 1 Claim. (Cl. 83—12.)



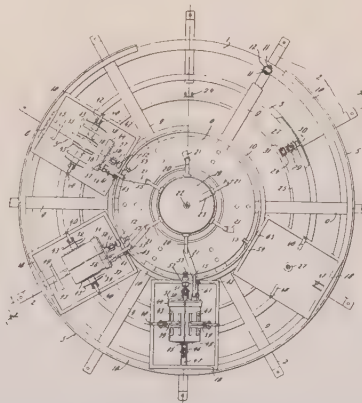
A machine for breaking cocoa cake or like material comprising three toothed rollers disposed with their axes in three superposed planes and cooperating for passage of the material between them, the first roller cooperating with the second roller, and the second with the third, one of the upper pair of rollers being of a general oval form and section in order that during rotation of said rollers the width of space between said upper pair of rollers is periodically varied.

1,421,561. BATTERY CANDLE. EDWIN PUGSLEY, New Haven, Conn., assignor to The Winchester Repeating Arms Company, a Corporation of Connecticut. Filed Nov. 3, 1921. Serial No. 512,415. 7 Claims. (Cl. 240—8.5.)



1. In a battery hand lamp, a tubular casing of paper having its front end turned back in a crimp into which an incandescent lamp bulb may be threaded, substantially as described.

1,421,562. TESTING MACHINE. WILLIAM J. RAFTERY, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of California. Filed Apr. 14, 1921. Serial No. 461,187. 10 Claims. (Cl. 73—51.)

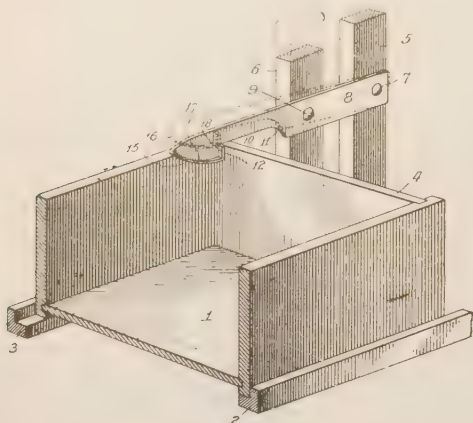


1. In a device of the class described, a test tank adapted to contain liquid, a reciprocating member, gripper devices carried by the reciprocating member and adapted to grip the sides of a receptacle to be tested, independent means carried by said member for sealing the filling opening of the receptacle, independent means automatically operating to force the receptacle against said sealing means during the submergence of the receptacle, and means for operating the reciprocating member.

1,421,563. LOCKING MEANS. DANTE A. RAGGIO, Chicago, Ill. Filed Jan. 11, 1919. Serial No. 270,636. 1 Claim. (Cl. 45—94.)

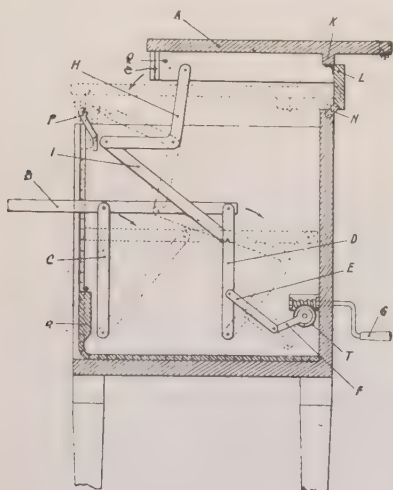
A desk hook stamped from sheet metal and adapted for use with wooden or other soft material drawers, said hook comprising a strong light-weight body portion hav-

ing a notch or recess in the lower edge thereof adapted to engage and lock the drawer, the forward end of said book being cam shaped to ride over the edge of the drawer, a portion of the sheet metal forming said hook being bent laterally at substantially right angles to the body thereof



to form an integral continuous flange extending along the drawer engaging edge of the cam and the forward portion of the notch or recess forming the hook, thereby providing a light-weight hook having a continuous wide bearing surface adapted to engage the drawer.

1,421,564. OFFICE DESK. FERNANDO BIANCHI Y RECHE, Madrid, Spain. Filed Feb. 26, 1920. Serial No. 361,503. 2 Claims. (Cl. 45—52.)

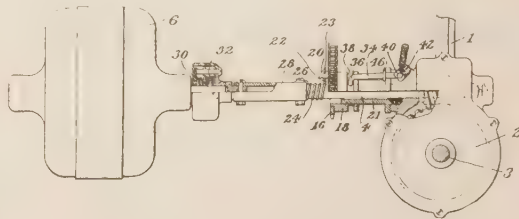


1. In an article of furniture, a frame, a leaf loosely pivotally connected to the rear upper side of the frame, a top pivotally connected to said leaf, a bell-crank lever pivotally mounted in the frame and having one of its arms pivotally connected to the upper board, a lower board, levers having their lower ends pivotally mounted in the frame and their upper ends pivotally connected to the lower board, and a link connecting the other arm of said bell-crank lever to one of the last named levers.

1,421,565. POWER-TRANSMISSION APPARATUS. WALTER C. REED, Dalton, Mass. Filed Apr. 19, 1920. Serial No. 374,843. 3 Claims. (Cl. 192—55.)

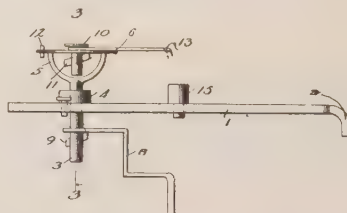
1. In combination, a shaft, a sleeve rotatably and slidably surrounding it, having a driven stud, a helical driving spring loose on the shaft with one end fastened to the shaft and with its other end free and extending outward

from the shaft in direction to engage and disengage freely a body rotating about the shaft's axis and means for



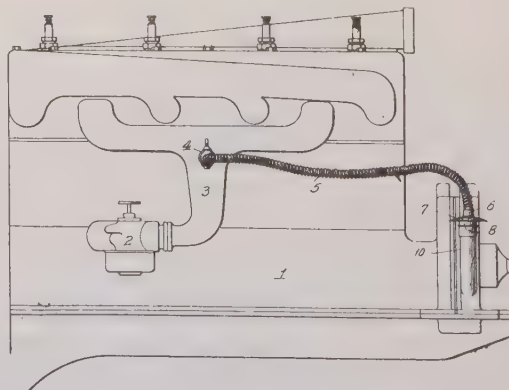
sliding the sleeve along the shaft to move the driving stud into and out of engagement with the free end of the spring.

1,421,566. MACHINE FOR MAKING SPRINGS. REESE D. REESE, Virginia, Minn. Filed Aug. 18, 1920. Serial No. 404,404. 4 Claims. (Cl. 153—64.)



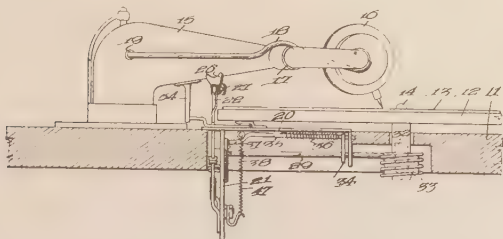
1. A machine of the character described comprising a base plate, a shaft journaled vertically in the said plate and provided at its lower end with a detachable crank, said shaft being forked at its upper end, a disk supported by the arms of the fork substantially parallel with the plate, said disk having a central opening, and a headed pin passing through the opening, said pin having a transverse slot below the plate, and a key engaging the slot, said disk having an annular series of openings near its periphery, and a pin for engaging one of the openings.

1,421,567. GASOLINE AND OIL SAVER. WILLIAM A. RICHEY and CLEM H. ROWLES, Akron, Ohio. Filed Feb. 28, 1921. Serial No. 448,668. 4 Claims. (Cl. 123—119.)



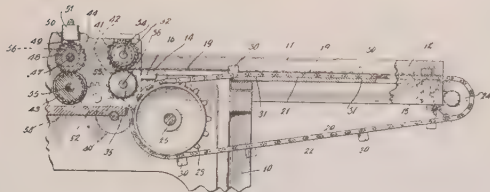
1. An automobile accessory comprising a flexible pipe, a stopcock secured to one end thereof and adapted to be screwed into the intake manifold of an automobile, and a substantially cylindrical cap secured to the other end of the pipe and adapted to be used either as a funnel or as a cap for the breather pipe of the automobile.

1,421,568. APPARATUS FOR RESETTING SOUND REPRODUCERS. JACOB J. RISER, Shelbyville, Ind. Filed Sept. 21, 1921. Serial No. 502,198. 8 Claims. (Cl. 274-15.)



1. The combination with a record holder and a reproducer arm that moves thereover, of a swinging support for moving the reproducer arm over the record holder, said support having a shiftable pivot axis, and means for effecting a shifting movement of the support and its pivot axis to engage the support with the arm and for effecting a swinging movement of the arm to move said arm over the support.

1,421,569. ARTICLE-FEEDING MACHINE. OSCAR N. RITCHIE, Hamilton, and HERBERT C. BOYKIN, Middletown, Ohio, assignors to P. Lorillard Company, New York, N. Y., a Corporation of New Jersey. Filed May 9, 1921. Serial No. 467,986. 10 Claims. (Cl. 271-50.)

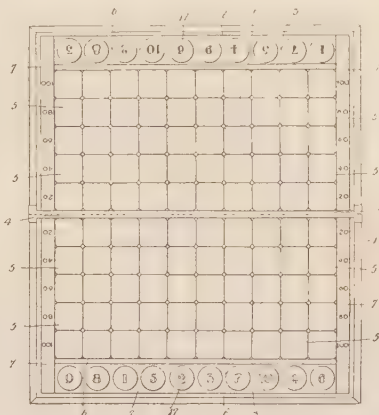


1. In a machine for feeding articles, an endless conveyer provided with a plurality of spaced article engaging elements, feed wheels over which the conveyer is trained, movement of the conveyer being operative to feed the articles in a predetermined path, provisions arranged for receiving the articles from the conveyer to feed the same forward and means for first moving the conveyer in a direction to feed the articles in the said path and for then moving the conveyer in a given direction at an angle thereto to cause the conveyer and the article engaging elements thereon to drop or move below the said predetermined path before rounding a feed wheel, the change in the direction of movement taking place in a region spaced a prearranged distance from the said provisions.

1,421,570. GAME. ALBERT EDWARD DAY'S BAY ROD, Wellington, New Zealand. Filed Jan. 22, 1920. Serial No. 353,297. Renewed May 23, 1922. Serial No. 563,123. 3 Claims. (Cl. 46-64.)

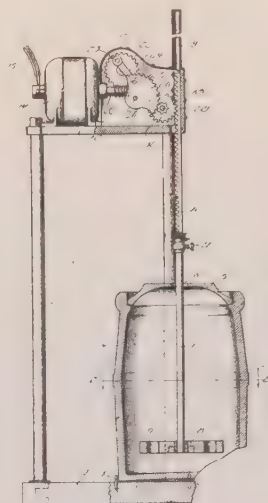
2. Apparatus for playing a game, consisting of a board with parallel trenches at opposite sides, rows of squares parallel with each other and at right angles to the trenches and extending from one of the latter to the

other; scoring numerals at the ends of the rows of squares parallel with the trenches, increasing in value from the



trenches towards the center of the board, and consecutively numbered men for moving on said board.

1,421,571. POWER-OPERATED CHURN. JOHN M. RODGER, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,145. 4 Claims. (Cl. 74-14.)

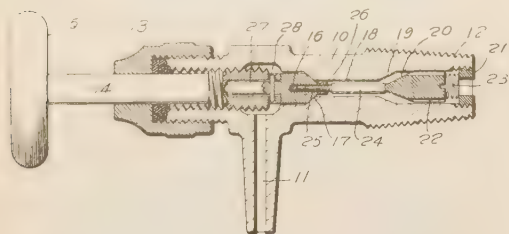


1. An agitating device of the character described comprising a base member, standards extending upwardly from said base member, a base plate supported by said standards, a motor secured to said base plate, a worm driven by said motor, a worm wheel meshing with said worm, a sector gear, a link connecting said worm wheel to said sector gear, a double pinion having two pinions of different diameters, the pinion of smaller diameter meshing with said sector gear, an operated member, and a rack carried by said operated member and meshing with the larger pinion of said double pinion.

1,421,572. VALVE FOR GAUGE COCKS. HENRY W. RYALLS, Thurmond, W. Va. Filed Oct. 11, 1920. Serial No. 416,206. 2 Claims. (Cl. 277-27.)

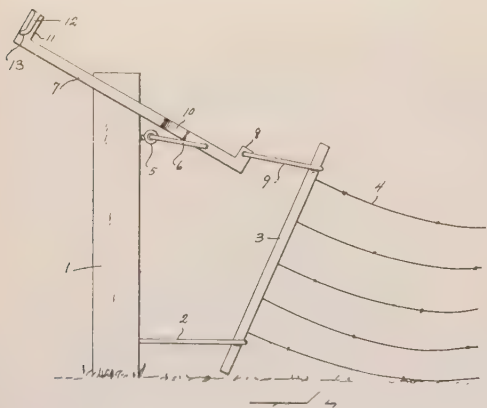
1. A gauge cock having two valves, one being hand movable to its seat and the other being a check valve, the latter consisting of a solid block with a cylindrical portion and a conical end, a groove or grooves extending along the cylindrical portion and opening to the conical

end. and a stem carried by the hand seated valve unconnected with but reaching to said check valve and adapted to engage the small end of the check valve, said



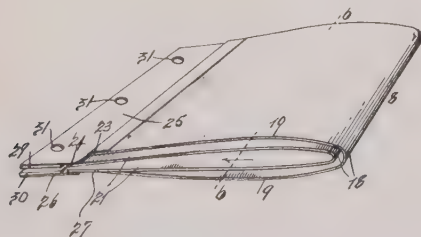
stem being longitudinally adjustable to compensate for changes in the distances between the valve seats from grinding.

1,421,573. GATE FASTENER. HENRY H. SCHAEFER, Weldona, Colo. Filed July 23, 1921. Serial No. 487,040. 5 Claims. (Cl. 292--247.)



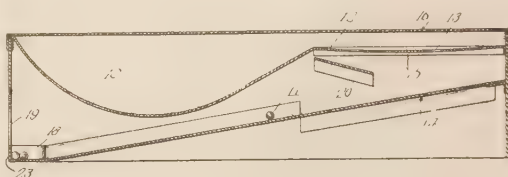
1. In a wire gate fastener, the combination with a support, of a securing member adjustably attached to the support, a locking lever, a link pivotally connected intermediate the ends of the locking lever and pivoted to the securing member to swing about the member as a vertical axis, and a link arranged for connection between a part on the gate and one end of the lever.

1,421,574. DISPLAY BOOK. MORRIS SCHLOSSER, New York, N. Y. Filed Sept. 15, 1921. Serial No. 500,887. 3 Claims. (Cl. 129--26.)



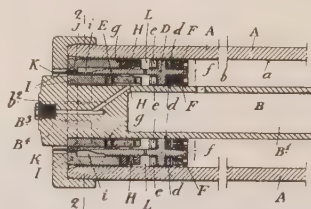
2. A page for a display book consisting of a sheet of suitable material folded over to form pockets, and a fastening element secured to outermost members of each pocket portion at the free ends thereof, the free ends of the innermost members of the pocket portions being unsecured.

1,421,575. GAME. EDWARD F. SCHMIDT, Chicago, Ill. Filed Dec. 20, 1919. Serial No. 346,293. 6 Claims. (Cl. 46--61.)



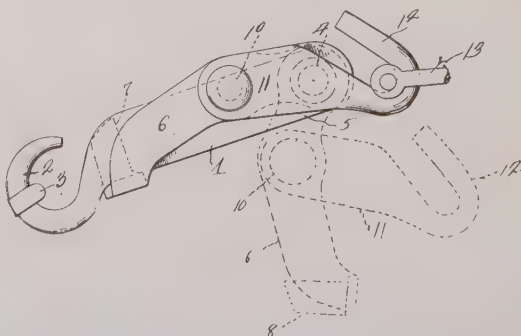
1. A game comprising a rollable object, and a floor for said object to roll on comprising a portion inclining downwardly from the starting point, a second portion inclining upwardly therefrom, and a third substantially horizontal portion onto which said object rolls, said third portion being dished, and provided with a plurality of openings into which said object may roll, whereby said object will roll down said first portion, up said second portion, and around on said horizontal portion until it falls into one of said openings.

1,421,576. COMPRESSED-AIR RECUPERATOR FOR GUNS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Dec. 28, 1920. Serial No. 433,660. 11 Claims. (Cl. 89--43.)



1. In a recuperator for guns having a stationary part and a movable part, a reservoir attached to one of said parts, a hollow rod attached to the other of said parts and extending within said reservoir, said hollow rod having communication with said reservoir and being adapted to receive a fluid under compression, and means confining the fluid between the inner surface of the reservoir and the wall of said hollow rod, said means comprising a pair of packing members slidably mounted in spaced relation on said rod, one of the packing members being movable with said rod to compress the fluid on rearward movement of the gun and the other packing member being movable with said rod to compress the fluid on forward movement of the gun.

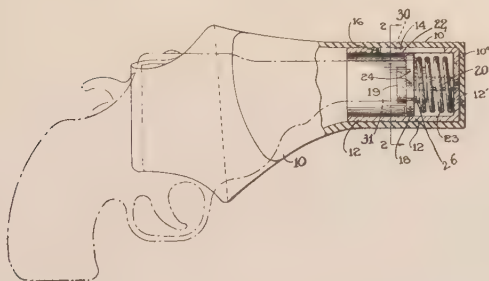
1,421,577. AUTOMOBILE TIRE-CHAIN HOOK. HARRY SCHUCHMAN, Little York, Ill. Filed Mar. 22, 1921. Serial No. 454,464. 1 Claim. (Cl. 24--68.)



A chain securing hook and take up comprising an elongated member having a hook at one of its ends, an operating lever pivoted to the other end of said elongated

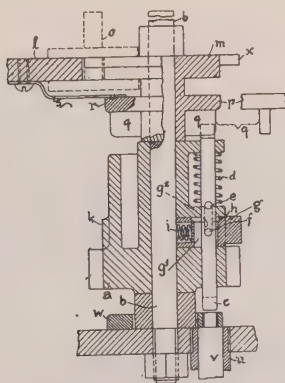
member, a chain receiving hook pivoted to the operating lever at a point spaced from its ends, the free end of said operating lever being provided with an offset arm adapted to receive the elongated member, the operating lever having its inner face provided with a compound curve, the convexed portion of which is disposed adjacent the offset arm of the operating lever and forming means for frictionally engaging the side of the elongated member and holding the operating lever frictionally against displacement.

1,421,578. SAFETY REVOLVER HOLSTER. JOSEPH SCHUSSLER, Bethlehem, Pa. Filed Mar. 25, 1921. Serial No. 455,447. 5 Claims. (Cl. 224—1.)



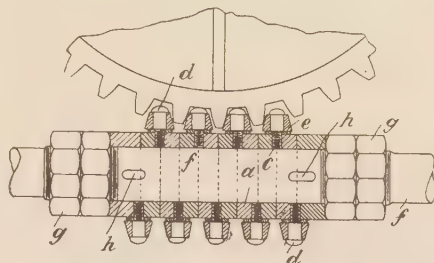
1. In a pistol holster, a locking member adapted to engage the forward sight member of the pistol, and resilient means holding said locking member in engagement with said sight member.

1,421,579. BOBBINET-MAKING MACHINE. OTHMAR SEEBERGER, Brugg, Switzerland. Filed Apr. 13, 1921. Serial No. 460,884. 3 Claims. (Cl. 96—11.)



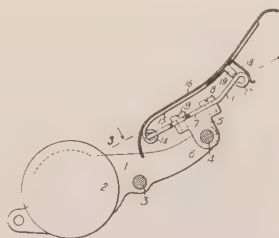
1. A bobbinet making machine of the kind described, comprising a stationary stem, a drive wheel rotatably mounted on said stationary stem, a clutch pin axially slidable in the drive wheel and turning with the same, a pattern mechanism to control the upward movement of the clutch pin, a spring to control the downward movement of the clutch pin, a spring pressed bar radially slidable in the drive wheel and capable of locking the clutch pin in the raised position and of being locked in the inner position by the clutch pin, a projection provided on the drive wheel diametrically opposite the bar, a disc adapted to rotate freely around the said stem and having recesses forming noses to drive the bobbins and having also two diametrically opposite radially extending lugs capable of being engaged by the clutch pin and means for accurately and yieldingly stopping the disc.

1,421,580. WORM FOR WORM GEARINGS. HENRY SEEMANN, Hamburg, Germany. Filed Sept. 3, 1921. Serial No. 498,468. 3 Claims. (Cl. 74—36.)



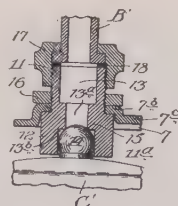
1. A worm for worm gearings, comprising rollers arranged in rows forming the screw threads of the worm, studs forming the pivot pins for the rollers, a series of rings on the shaft of the worm, each ring provided with recesses, each recess registering with a recess of the next following ring to form a circular hole, the pivot studs of the rollers screwed into these holes.

1,421,581. TYPEWRITING MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 10, 1921. Serial No. 521,411. 11 Claims. (Cl. 197—143.)



1. In a typewriting machine, the combination of a carriage, a paper table, and means for detachably connecting the paper table to the carriage, said means comprising a hand released pivoted member which in one pivotal position connects the paper table to its support and in another pivotal position releases the paper table for detachment.

1,421,582. LUBRICATING DEVICE. WENDELIN P. SENG, Chicago, Ill. Filed Dec. 13, 1918. Serial No. 266,575. 12 Claims. (Cl. 137—104.)



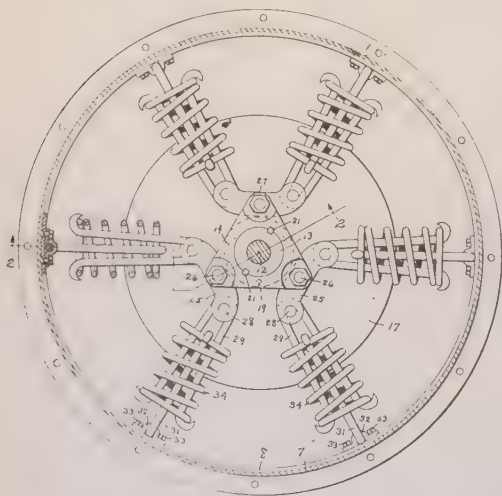
1. In means of the character set forth, the combination of a source of fluid supply, a float-chamber, a conduit from said source of supply, a valve-housing with which said conduit communicates, said valve-housing having a cylindrical passage opening toward the float-chamber, a float fitting loosely in said float-chamber, a spherical headed piston-valve operated by said float and working in closing contact in said cylindrical passage, a chamber wherein a working level of fluid is to be maintained, and a discharge-conduit for conducting fluid from the float-chamber to said last-named chamber.

1,421,586. OILING DEVICE. WENDELL P. SENG, Chicago, Ill. Filed Oct. 10, 1919. Serial No. 329,836. Renewed Nov. 25, 1921. Serial No. 517,811. 13 Claims. (Cl. 184-103.)



3. The combination with an engine having an oil containing crank case, of a float controlled feed therefor, and means intermediate the feed and the crank case for automatically shutting off the oil feed flow therein when the engine is inclined in either direction from its normal horizontal position.

1,421,584. RESILIENT WHEEL. HOMER R. SHAFER, Detroit, Mich. Filed Jan. 19, 1921. Serial No. 438,314. 4 Claims. (Cl. 152-44.)

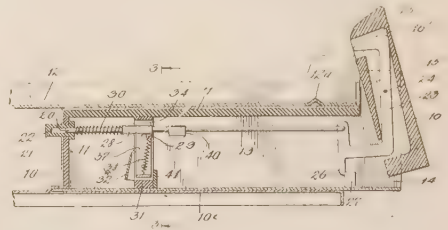


1. In a resilient wheel, the combination of a hub member, a series of equally spaced pins mounted on the hub member parallel to the axis thereof, a lever mounted on each pin, an outer cylindrical portion of the wheel, and resilient tension members extending in the same plane from both ends of the levers at equal distances from the pivots thereof radially to the outer cylindrical portion.

1,421,585. CONCENTRATION OF ORES BY FLOTATION. GRY E. SHERIDAN and GEORGE G. GRISWOLD, Jr., Butte, Mont. Filed Jan. 13, 1921. Serial No. 437,030. 21 Claims. (Cl. 83-85.)

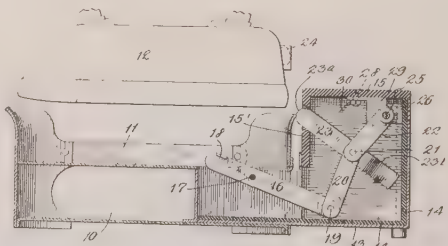
1. A process of concentrating by flotation an ore containing lead sulfide and one or more other metallic sulfides including iron sulfide which comprises treating the ore with a cyanide and an alkaline salt, and subjecting the thus treated ore to a flotation operation whereby the lead sulfide is in large part recovered in the resulting froth and the flotation of the iron sulfide is in large part inhibited.

1,421,586. STAND AND AUTOMATIC SWITCH FOR ELECTRIC IRONS. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Jan. 28, 1920. Serial No. 354,616. 11 Claims. (Cl. 219-25.)



1. In combination with an electric sad iron having contacts thereon, an electric heating stand having electrical contact members for said contacts, and means adapted to be operated by the iron when being placed in position on the stand to connect said contact members to the electric supply and to said contacts on the iron, said means comprising a conducting member carrying a contact member, a circuit making member for the latter pivoted below said conducting member and a spring member secured at one end to said circuit making member below the pivotal center thereof and at the other end to said conducting member, whereby a lateral displacement of said conducting member snaps said circuit making member into and out of contact with said contact member on said conducting member.

1,421,587. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Mar. 6, 1920. Serial No. 363,913. 3 Claims. (Cl. 219-25.)

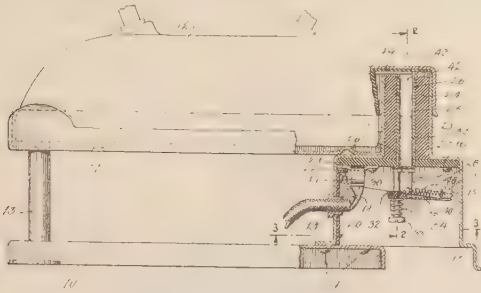


1. In an electric heating stand for sad irons and the like, a support for the iron, an actuating member extending normally above the surface of said support, said actuating member adapted to be adjusted to be operated by different weights of iron when placed in position on the support, a contact making arm, means for transmitting motion from said actuating member to said contact making arm whereby the latter connects the electric circuit to the iron, and means for normally maintaining said actuating arm above the support in position to be operated by the iron.

1,421,588. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Apr. 1, 1920. Serial No. 370,496. 5 Claims. (Cl. 219-25.)

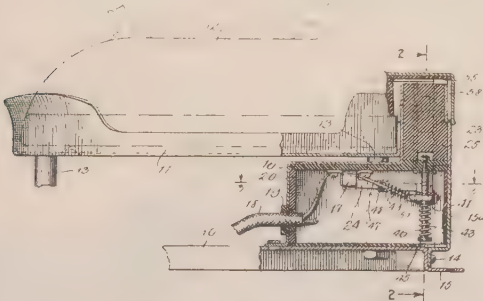
1. In an electric heating stand for electric irons and the like apparatus, an automatic switch for connecting the electric supply to the iron comprising a pair of contact members connected to the electric supply, a pair of switch

members, actuating means for said switch members adapted to electrically connect the same to said contact mem-



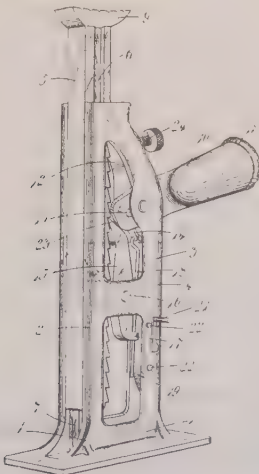
bers, and means for preventing the operation of one of said switch members independently of the other.

1,421,589. ELECTRIC PRESS IRON. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed May 4, 1920. Serial No. 378,750. 18 Claims. (Cl. 219—25.)



1. In electric press iron construction, in combination, an iron, a stand, means adapted to lead current from said stand to said iron, comprising a contact member on said iron and a co-acting contact on said stand adapted to embrace and resiliently grip said first contact.

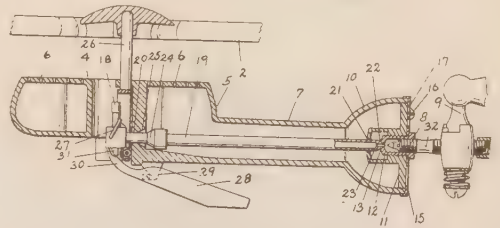
1,421,590. LIFTING JACK. ALBERT SHRIEVES and HENRY EDWIN SHRIEVES, Sutton Coldfield, England. Filed June 4, 1920. Serial No. 386,422. 1 Claim. (Cl. 254—111.)



In a lifting jack, a frame, a rack vertically movable therein, a lever pivotally mounted in the frame, a pawl for engaging the rack and pivotally connected to said lever, a

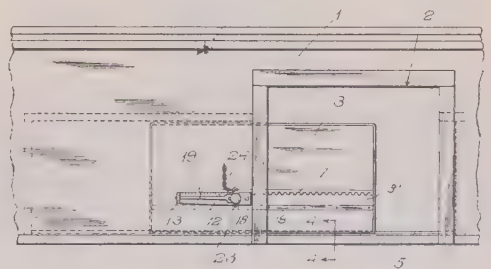
second pawl below the lever, for engaging the rack, means coacting with said lever to operate said second pawl, and an adjustable abutment member mounted in the frame and arranged for engagement with and disengagement from the first named pawl, to cause the said pawl to engage the rack earlier in the operative movement or to take up wear in the parts, and to also enable the jack to be locked in any position.

1,421,591. GAS BURNER. EDWIN H. SHULER, Lansing, and MAX C. SHULER, Charlotte, Mich. Filed Aug. 11, 1921. Serial No. 491,536. 8 Claims. (Cl. 126—52.)



1. In a structure of the class described, the combination of a grid, a main burner disposed below the grid and provided with a Bunsen tube and a nozzle delivering thereto having a valve seat at its inner end, a pilot burner operatively associated with said main burner, a pilot burner supply tube carrying said pilot burner and mounted to reciprocate longitudinally in said Bunsen tube and through the wall at the inner end thereof, said supply tube being provided with a packing valve coacting with a seat in the wall surrounding the tube, and with a nozzle valve at its outer end coacting with the valve seat in said nozzle to control the delivery of gas to the main burner and an inlet opening registering with the nozzle opening when said nozzle valve is closed permitting the passage of gas to the pilot burner, a valve actuating member mounted on said burner to reciprocate vertically and adapted to be actuated by an object placed on said grid, a link connecting said valve actuating member to said pilot burner, and a weight pivotally mounted on said main burner for returning said valve actuating member to its initial position and provided with an arm engaging the pilot burner when the said actuating member is in its normal position whereby said nozzle valve is held in its seat by said weight.

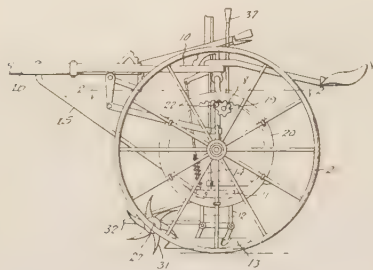
1,421,592. GRAIN-CAR DOOR. JURGEN SIEMSEN, Broken Bow, Nebr., assignor to Berton C. Empfield, Broken Bow, Nebr. Filed Nov. 17, 1921. Serial No. 515,891. 4 Claims. (Cl. 268—7.)



1. A car having a doorway, a door slidable into and out of position for closing the doorway, actuating means for the door including a bracket carried by the wall of the car and having an outstanding arm, a rotatable shaft extending through the wall of the car, a turning and locking bar loosely mounted upon said shaft and movable longitudinally thereof from a position permitting free swinging of the bar upon the shaft to a position causing rotation of the

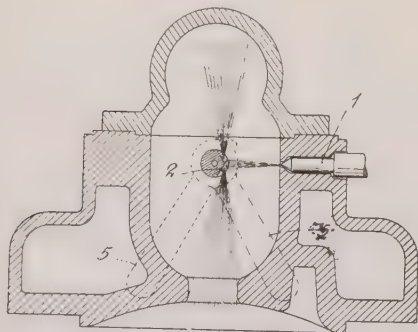
shaft when the bar is swung, the bar when in the first position being movable longitudinally of itself to bring its free end into and out of engagement with the outstanding arm of the bracket, the bar when engaged with the outstanding arm being held against swinging movement upon the shaft, and means for releasably holding the bar in the second mentioned position upon the shaft to hold the shaft against turning when the bar is in engagement with the arm of the bracket.

1,421,593. CULTIVATOR ATTACHMENT. MILFORD R. SIMS, Saunemin, Ill. Filed May 1, 1920. Serial No. 378,140. 2 Claims. (Cl. 55-64.)



1. A weed destroying attachment for a surface cultivator including earth working elements for lifting weeds, stationary cutting elements adjacent the earth working elements, and rotary cutting elements cooperating with the stationary cutting elements and mounted to initially lift the weeds from the earth working elements to the stationary cutting elements to sever the same.

1,421,594. INTERNAL-COMBUSTION ENGINE. ANTON IVERSEN SLETTEN, Christiania, Norway. Filed June 16, 1920. Serial No. 389,354. 2 Claims. (Cl. 123-32.)

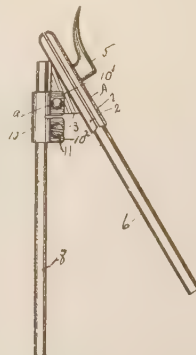


1. In combination with an internal combustion engine of the type provided with a hot chamber, a thick-walled tube running through the hot chamber from one side to the other, the wall of the tube being cut away to form upwardly and downwardly directed oil deflecting surfaces, means for passing a current of cooling water through the tube, and means for spraying oil against the said oil deflecting surfaces.

1,421,595. EASEL FOR FLORISTS' USE. CHARLES SMITH, Providence, R. I. Filed Mar. 11, 1922. Serial No. 543,041. 7 Claims. (Cl. 248-41.)

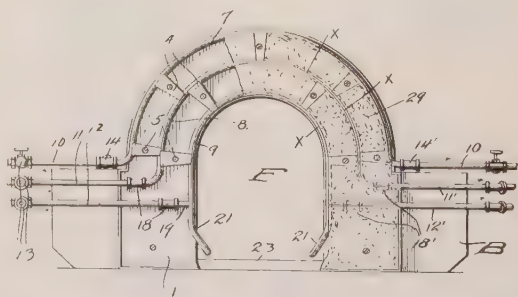
5. In an easel the combination of a clamping member pierced in its lower portion and having at its inner edge a lateral extension and a laterally directed threaded shank, a nut engaging said shank, a holder for one leg of the easel the same consisting of a tubular body open at one side

throughout its length, and having laterally extending wings disposed on each side of said opening and spaced a distance apart laterally and longitudinally, said wings pierced, a bolt engaging the pierced upper wings of the holder and



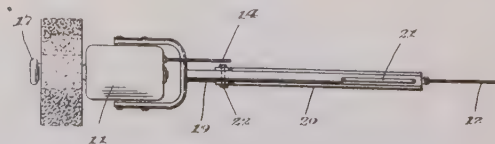
the pierced lower portion of the clamping member to thereby form a hinge pivot, an easel leg held in said holder and means engaging said pierced lower wings to thereby clamp said holder upon said leg.

1,421,596. CHILL. WILLIAM I. SMITH, Gary, Ind. Filed Dec. 10, 1918. Serial No. 266,079. 1 Claim. (Cl. 122-65.)



In a furnace of the character described, the combination with an arched hearth wall having a flue, an inner face fixed to the outer face of said wall, a curved tube pipe skirting the extreme inner and outer edges of said plate, a curved tube pipe and a plurality of radially disposed spacing blocks between the outer and inner chill pipe for maintaining the same in parallel, spaced relation, said inner pipe having a lateral, outwardly directed extension at each end and a straight pipe connection continuing from each of said ends and extending horizontally within said flue, supply and discharge pipes connecting the ends of the respective chill pipes, an auxiliary pipe cooling section between the supply and discharge pipes and valve controlled means for introducing and receiving a continuous flow of water through the system.

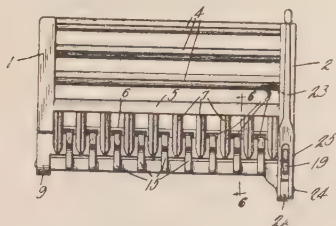
1,421,597. SHOE-SHINING MACHINE. JAMES SMYTHE, Dines, Wyo. Filed Jan. 5, 1921. Serial No. 435,137. 1 Claim. (Cl. 15-36.)



In a shoe polishing machine, a motor, a rod secured to said motor, a connector rod, the first mentioned rod

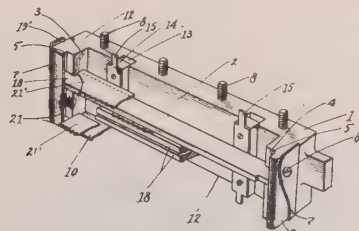
being pivoted to said connector rod inwardly from one of its ends, said connector rod being arcuate in cross section to receive and accommodate the first mentioned rod when in one position, and a shoe cleaner operated by said motor.

1,421,598. SHAKER GRATE. SAMUEL H. SORRELL. Ashland, Ala. Filed Apr. 13, 1921. Serial No. 460,917. 3 Claims. (Cl. 126—173.)



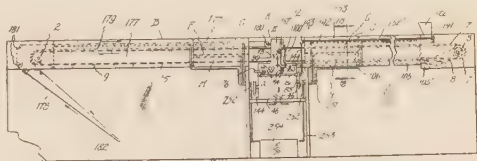
1. In a device of the class described, a frame embodying front posts, a front bar connecting the posts, a back piece, and grate bars connecting the front bar with the back piece; a shaft mounted to rock on the back piece; fingers carried by the shaft and located between the grate bars; a lever mounted to swing on one post; and a link forming a connection between the lever and the shaft, the said post having an opening for the reception of the link.

1,421,599. WOODWORKING TOOL. SIGVARD SORENSON, St. Paul, Minn., assignor of one-half to Arie Vollegraaf, St. Paul, Minn. Filed Oct. 24, 1921. Serial No. 510,001. 2 Claims. (Cl. 145—31.)



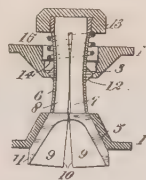
2. In a wood working tool of the class described, the combination, a long stock recessed intermediate its ends to form transverse parallel end walls, a groove parallel with the bottom of said recess, in the inner vertical face of each of said end walls adjacent the outer edge thereof, a plurality of spreader bars adapted to be superposed upon one another, fitting slidably endwise between said end walls and extending slidably into said grooves, so as to be flush with the outer edges of said walls, a plate extending between said end walls, so as to form a wall on one side of said recess, a detachable plate similar to said first named plate forming a wall on the opposite side of said recess, clamping means for detachably clamping said last named plate to said stock, and saw blades superposed in alternate order with said spreader bars, the teeth thereof projecting beyond the outer edge of the latter, said blades extending between said end walls, so that they may be inserted, from a position in front of said spreader bars, sideways between said walls, and edgewise between said spreader bars, said superposed spreader bars and saw blades extending when assembled, into contact with said last named plate, to be clamped together, thereby, in the process of clamping said plate to said stock.

1,421,600. METHOD OF MAKING CONFECTIONS. CLIFFORD P. SPECK, Oakland, Calif. Filed May 17, 1920. Serial No. 381,848. 5 Claims. (Cl. 107—54.)



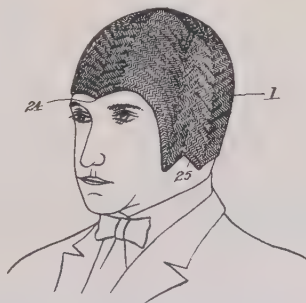
1. The method of making confections which consists in depositing a charge of confection forming material in a plastic condition into a mold through an opening therein, then forming a shell thereof having an open end, by forcibly distributing the plastic material over the inner wall of the mold by injecting an air blast into the mold through its opening, then supplying the formed shell through the opening therein with a charge of filling material, then closing the opening in the shell forming material and causing the same to unite with the edges of the shell opening, and then discharging the formed confection from the mold through the opening through which the material was supplied thereto.

1,421,601. CONFECTION MOLD. CLIFFORD P. SPECK, Oakland, Calif. Filed June 21, 1921. Serial No. 479,298. 11 Claims. (Cl. 107—8.)



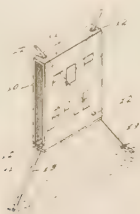
2. An expansible mold, comprising a cupped mold member consisting of a plurality of co-operating sections permanently associated together, a stem mounting said sections, a guide within which said stem is longitudinally movable, and means associated with said stem and guide for causing a separation of said mold sections on longitudinal movement being imparted to said stem in one direction.

1,421,602. KNITTED CAP. BENJAMIN SPECTOR and LOUIS E. ROSENBERG, Brooklyn, N. Y. Filed Dec. 23, 1920. Serial No. 432,668. 3 Claims. (Cl. 2—106.)



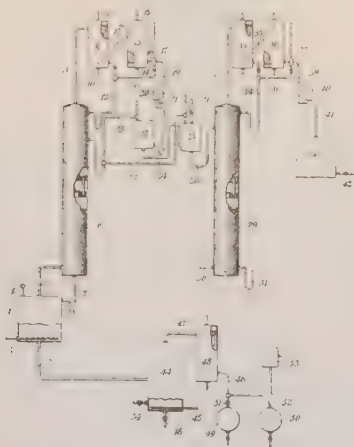
1. A knitted cap comprising a flat strip of fabric of herring-bone weave having pairs of oppositely inclined transverse areas interspersed between single oppositely inclined transverse areas of greater longitudinal extent throughout the length of the strip, the ends of said strip and the irregular upper margin thereof being secured together to form the back and top of the cap.

1,421,603. MEANS FOR SUPPORTING SIGNS OR SIMILAR ARTICLES. HOWARD M. STANTON, Indianapolis, Ind. Filed Feb. 3, 1921. Serial No. 442,056. 6 Claims. (Cl. 40—125.)



1. The combination of a supported member having a pair of guide ways extended therethrough and at an angle to each other, and a pair of supporting legs projecting through said guide ways which guide ways permit only relative linear movement of the legs, said legs having their bottom ends imbedded in the ground and held by the ground against lateral and angular relative movement and in a desired spaced relationship, the vertical movement of said member on said legs in either direction being prevented solely by the angular spaced relationship of said legs maintained by the ground.

1,421,604. PROCESS FOR THE MANUFACTURE OF ESTERS. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 5, 1921. Serial No. 458,837. 25 Claims. (Cl. 260—106.)

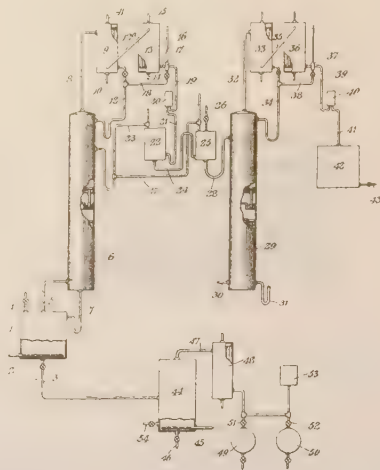


14. The process which comprises esterifying an alcohol and an acid in the absence of a catalyst and in the presence of a third liquid miscible with the alcohol but substantially immiscible with water, while removing from the reaction mixture vapors of water, the alcohol and the third liquid, rectifying said vapors, separating the condensate into two liquid layers, containing respectively high and low percentages of the third liquid, subjecting the liquid layer containing the low percentages of the third liquid to washing to remove said liquid therefrom, and rectifying the remaining liquid containing water and the alcohol.

1,421,605. PROCESS FOR MANUFACTURING ESTERS. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 5, 1921. Serial No. 458,838. 25 Claims. (Cl. 260—106.)

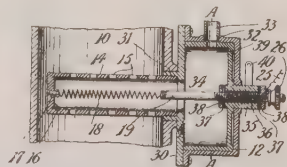
14. The process which comprises esterifying an alcohol and an acid with a catalyst in the presence of a third liquid miscible with the alcohol but substantially immiscible

with water, while removing from the reaction mixture vapors of water, the alcohol and the third liquid, rectifying said vapors, separating the condensate into two liquid layers, containing respectively high and low per-



centages of the third liquid, subjecting the liquid layer containing the low percentage of the third liquid to washing to remove said liquid therefrom, and rectifying the remaining liquid containing water and the alcohol.

1,421,606. FUEL VAPORIZING AND ECONOMIZING APPARATUS. CECIL VINCENT STEVENSON, Sydney, New South Wales, Australia, assignor of five-eighths to Thomas Ernest Rofe, Sydney, New South Wales, Australia, and three-eighths to Sidney Le Fevre Varvel, Wahroonga, near Sydney, New South Wales, Australia. Filed Feb. 28, 1921. Serial No. 448,542. 12 Claims. (Cl. 219—38.)

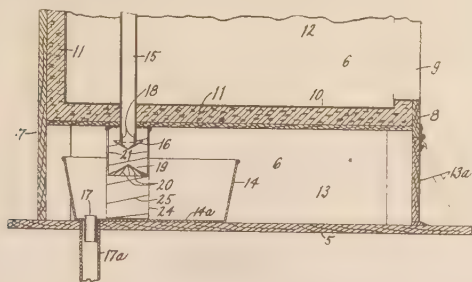


1. A vaporizing and fuel economizing apparatus for internal combustion engines comprising, an electrical resistance heating coil disposed in the path of the fuel charge, a gauze screen co-acting with said coil to radiate heat and further functioning to atomize the fuel and protect the vaporized fuel against contact with said coil, and means for admitting additional air and directing same over said coil to the fuel charge.

1,421,607. REFRIGERATOR ATTACHMENT. CARL F. STIEL, St. Paul, Minn. Filed July 25, 1921. Serial No. 487,561. 5 Claims. (Cl. 62—73.)

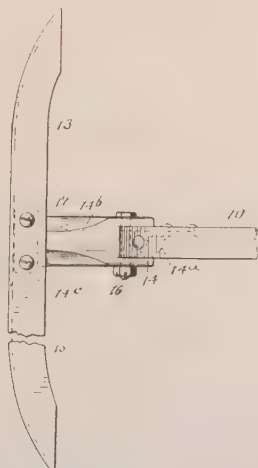
1. In a device of the class described, a longitudinally compressible tube of absorbent material, yieldable means within the tube for holding it expanded and normally in vertical position about the drip pipe of a refrigerator, with one end in contact with the under side of the bottom

of the cooling chamber of the refrigerator and the other end resting upon the bottom of a drip pan below the drip



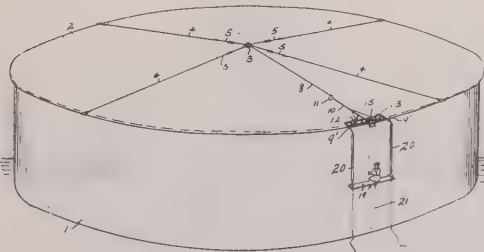
pipe, and means within the compressible tube for spreading the dripping water against the inner side of said tube, for the purpose set forth.

1,421,608. COMBINED SPRING HORN AND BUMPER SUPPORT. WILLIAM R. STRICKLAND, East Cleveland, Ohio, assignor to The Peerless Motor Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 10, 1921. Serial No. 443,812. 6 Claims. (Cl. 293-55.)



1. In an automobile having a chassis frame and front springs, a unitary combined spring horn and bumper support attached to the forward end of the chassis frame at each side, and having integral bumper supporting arms projecting forwardly from the frame, and a bumper attached to said arms.

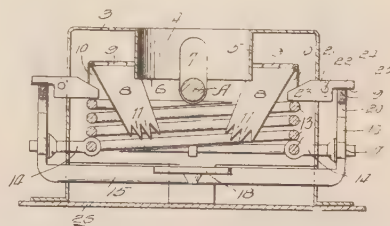
1,421,609. MOVABLE PAINTER'S PLATFORM. EARL J. STURM and MORRIS SURNSON, Houston, Tex., assignors of one-third to A. M. Bowman, Houston, Tex. Filed Jan. 20, 1920. Serial No. 352,670. 2 Claims. (Cl. 304-17.)



1. A device of the character described including a framework, composed of side members, carrier wheels upon which the framework is mounted, a laterally extend-

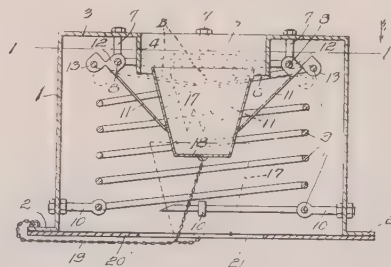
ing arm carried by the framework, an anti-friction roller carried by the free end of said arm, a stay rod, one end of which is attached to the free end of said arm, a spindle, cables for securing said spindle at the center of a circular roof, the other end of said rod being attached to said spindle said stay rod being adapted to retain said device in position to be supported by said carrier wheels engaging the margin of said roof, a platform, means suspending said platform from said framework through which the platform may be elevated and lowered and a mechanism through which one of said carrier wheels may be rotated to move said device around said margin.

1,421,610. GAME TRAP. MARTIN J. SVEHLA, Sutherland, Iowa. Filed Nov. 22, 1920. Serial No. 425,704. 4 Claims. (Cl. 43-88.)



1. In a trap of the class described, comprising a hollow case having a central opening in the top thereof, hinged jaw members arranged in opposed pairs having pronged inner ends, a coiled spring supported within the case, means for compressing the spring to permit setting of the jaw-members, means for holding the spring in its compressed position, and means adapted to be stepped upon by the foot of an animal for releasing the spring from its compressed position so that it will act against the jaw-members and close them in upon and firmly engage the leg of the trapped animal until released by the trapper.

1,421,611. GAME TRAP. MARTIN J. SVEHLA, Sutherland, Iowa. Filed Nov. 22, 1920. Serial No. 425,705. 3 Claims. (Cl. 43-88.)

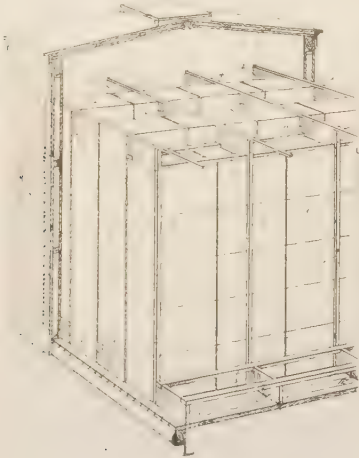


1. In a trap of the class described, comprising a hollow case having a central opening in the top thereof, hinged jaw members having pronged inner ends arranged in opposed pairs within the case, a plunger for setting and releasing the jaw-members, spring means acting upon the jaw-members after being released from engagement with the plunger, and means to limit the upward movement of the pronged ends of said jaw-members.

1,421,612. LOAD BRACING AND VENTILATING DEVICE FOR VEHICLES. GEORGE SYKES, San Francisco, Calif., assignor of one-half to Thomas B. Blackburn and one-half to Charles F. Potter, both of Los Angeles County, Calif. Filed Mar. 18, 1922. Serial No. 544,893. 8 Claims. (Cl. 105-373.)

1. The method of arranging fruits and other vegetable products in the natural state for shipment in vehicles,

which consists in dividing the load of crated goods in transverse load parts by light frame members and adding members for transmitting from each of said parts to the

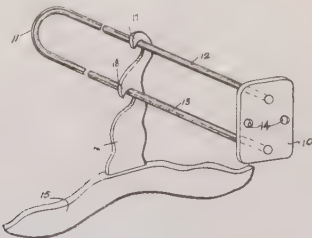


end portions of the vehicle strains longitudinal with respect to the latter, whereby each part is protected from force developed in other parts of the load.

1,421,613. PROCESS OF TREATING TEXTILE AND OTHER FABRICS, THREAD, YARN, AND THE LIKE. JOKICHI TAKAMINE, New York, N. Y., and JOKICHI TAKAMINE, Jr., Clifton, N. J. Filed Oct. 8, 1920. Serial No. 415,519. 11 Claims. (Cl. 8—2.)

1. The process of treating textiles for the removal therefrom of starches, gums and other substances, which comprises subjecting the textile to a bath containing proteolytic and diastatic enzymes, and permitting said enzymes to act on said substances to dissolve the same, and then washing the textile in water.

1,421,614. GARMENT HANGER. HERMAN TAUBMAN, Sturgeon Bay, Wis. Filed Sept. 27, 1920, Serial No. 412,992. Renewed May 19, 1922. Serial No. 562,267. 7 Claims. (Cl. 211—13.)

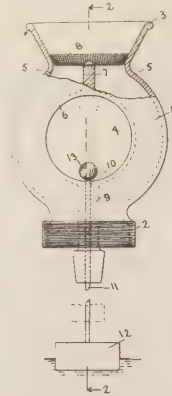


2. A hanger comprising a cross-bar of wood; and a hook member connected thereto by means of a barbed tongue and an auxiliary tongue on said hook member driven into the cross-bar, substantially as described.

1,421,615. WATER GAUGE FOR AUTOMOBILE RADIATORS. THOMAS I. TAYLOR, Newton, Mass., assignor to Taylor Machinery Company, Boston, Mass., a Corporation of Massachusetts. Filed June 14, 1921. Serial No. 477,367. 6 Claims. (Cl. 73—82.)

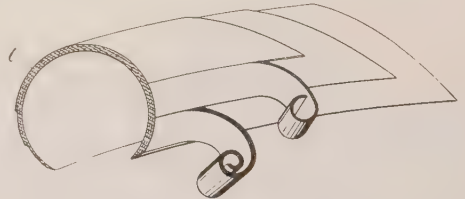
1. A water level indicator comprising a member supportable from the filling opening of an automobile radiator

and having an opening transversely therethrough, and also having a water passage in the wall bounding such opening, a float adapted to be supported by water in the radiator,



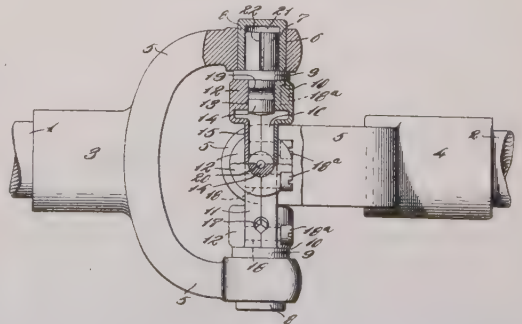
and an indicator exposed within the opening of said member in operative connection with said float to be raised and lowered by corresponding movements of the latter.

1,421,616. METHOD OF MAKING LINERS FOR REENFORCING THE COVERS OF PNEUMATIC TIRES. WILLIAM HENRY ALEXANDER THEED, South Kensington, and ARTHUR THOMAS PHILLIPS, Hammersmith, England. Filed June 3, 1920. Serial No. 386,384. 1 Claim. (Cl. 154—14.)



The process of making liners for reinforcing the covers of pneumatic tires from old or disused covers of such tires consisting in removing the beaded or thickened edges and the tread of the cover, cutting the foundation of the cover across so as to form an open ended band, and scarfing or stepping both the sides and the ends of the band by cutting and stripping successive layers of the fabric forming the foundation, substantially as herein described.

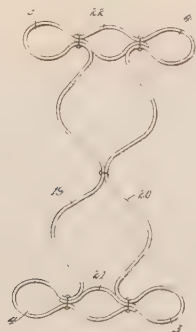
1,421,617. UNIVERSAL JOINT. WILLIAM H. THIEMER, Cleveland, Ohio, assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 20, 1919. Serial No. 305,643. 3 Claims. (Cl. 64—102.)



3. In a universal joint, the combination of a pair of yokes each having arms provided each with a bore, a

trunnion mounted in each bore and having a pin or stud projecting inwardly therefrom, a two-part connecting member having bores provided between the two parts thereof adapted to receive said pins or studs, and means for securing together the two parts of said member and for preventing rotation of said pins or studs with respect to said connecting member.

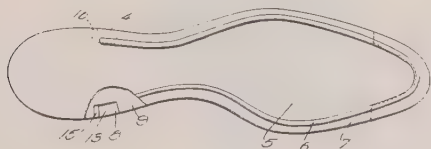
1,421,618. STRIP OR SHEET METAL STRUCTURE. ALBERT PETER THURSTON, London, England. Filed Jan. 6, 1920. Serial No. 349,788. 16 Claims. (Cl. 189—37.)



1. A strip or sheet metal structure of substantially I-girder section consisting of corrugated webs connected to corrugated flanges and hollow closed tubular portions connected and disposed along the edges of the flanges.

13. As an article of manufacture a strip or sheet metal structure of substantially I-girder section having longitudinal extending closed hollow portions on the flanges and on the web members.

1,421,619. INSOLE. LAURENCE E. TOPHAM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 14, 1918. Serial No. 249,857. 10 Claims. (Cl. 36—22.)

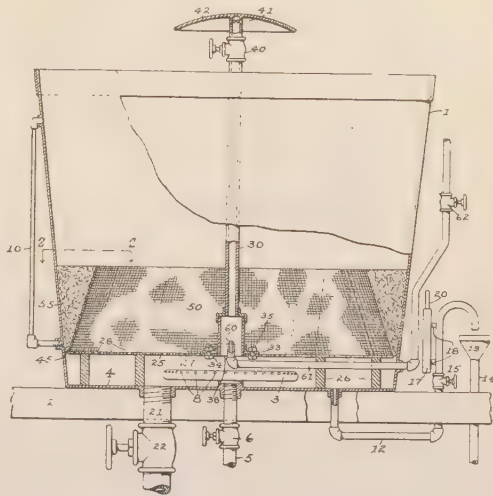


3. A manufactured insole comprising a layer provided with a marginal sewing-rib forming a sewing-surface, a sock-surface layer and a central body-layer, said body-layer being cut away at an end portion of the insole between the sewing-rib and the edge of the insole permitting the sewing-layer at this point to lie in contact with the sock-surface layer.

1,421,620. APPARATUS FOR THE EXTRACTION OF GLUE, GELATIN, AND THE LIKE. FREDERIC H. TUNNELL, Philadelphia, Pa. Filed Dec. 10, 1920. Serial No. 429,606. 2 Claims. (Cl. 87—7.)

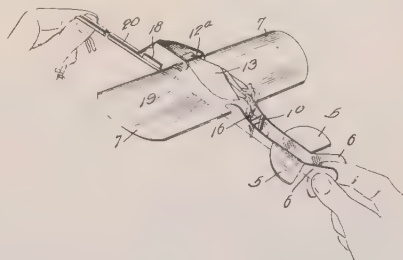
1. An apparatus for the extraction of glue, gelatin and the like comprising an open tank having a perforated false floor spaced from the bottom and sides thereof, a standpipe extending from said floor to a point above the top of the tank and having openings and a deflecting means adjacent its upper extremity, means for withdraw-

ing liquid from the tank, heating means between said false floor and the bottom of said tank, a screen disposed around the peripheral edge of the false floor and inwardly



inclined with respect thereto, and means adjacent the bottom of said standpipe adapted to direct a column of fluid upwardly therein.

1,421,621. TOY AEROPLANE. JOHN C. VAN ETEN, Portland, Oreg. Filed May 24, 1920. Serial No. 383,717. 10 Claims. (Cl. 244—12.)

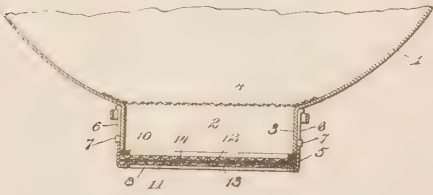


2. In a toy aeroplane, the combination of a fuselage, a wing or supporting surface at the forward portion of the fuselage and provided with a rearwardly projecting part extending between the walls of the fuselage, said part having its terminal portion bent upwardly to provide a pocket, means for securing the wing or supporting surface to the fuselage in the position named, and a parachute releasably secured on said supporting surface by said means, the parachute weight being supported in said pocket.

1,421,622. STRAINER FOR MILK CANS, PAILS, AND THE LIKE. NORMAN J. VAN NESS, Wysox Township, Bradford County, Pa. Filed Mar. 27, 1920. Serial No. 369,229. 1 Claim. (Cl. 210—158.)

A filling funnel for milk cans having a discharge neck, a cap fitted upon the neck and formed with a discharge opening and an inturned horizontal flange surrounding said opening and underlying the edge of the neck, a strainer resting against said flange and composed of upper and lower layers of wire gauze, and an intermediate layer of absorbent cotton disposed therebetween, an elastic gasket sealing the joint between the side wall of

the cap and the edge of the neck, said gasket being of greater width than the thickness of the neck and being arranged in parallel relation to the flange of the cap and coextensive in width with said flange and disposed between



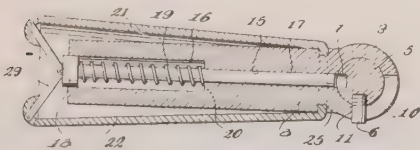
the edge of the neck and said strainer, and means connecting the cap with the neck whereby the strainer may be clamped with a variable yielding pressure between said flange of the cap and the gasket.

- 1.421.623. FLEXIBLE SHAFT AND METHOD OF MAKING SAME. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 16, 1921. Serial No. 445,333. 4 Claims. (Cl. 29—148.2.)



1. The improvement in the manufacture of coiled wire flexible shafts which consists in placing on the shafting a closely fitting tube and thereafter swaging the tube and the shafting to polygonal form.

- 1.421.624. SAFETY CRANK FOR INTERNAL-COMBUSTION MOTORS. SPENCER C. WAITS, Pine Bluff, Ark. Filed May 26, 1921. Serial No. 472,838. 5 Claims. (Cl. 74—33.)

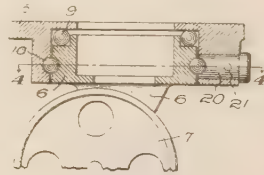


1. In a safety crank for internal combustion motors, a crank element, a handle having an eye rotatably mounted on the crank element, means for limiting the oscillatable movement of the handle on the said element, means for returning the handle to a normal position, hand engaging devices operated by pressure due to the grasping of the handle, a bolt for connecting the handle to the crank element, means for communicating the motion of the hand engaged portions of the said bolt, and means for retracting the bolt when the hand engaged elements are released.

- 1.421.625. PAINT AND PROCESS OF MAKING SAME. CLARENCE A. WARD, Brooklyn, N. Y. Filed Feb. 11, 1920. Serial No. 357,892. 4 Claims. (Cl. 134—39.)

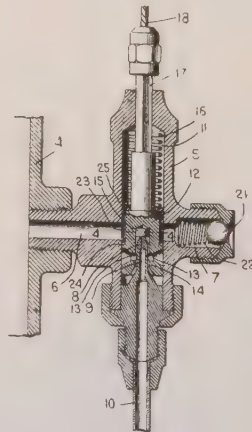
3. A paint comprising a vehicle, a pigment and a mixture of aluminum and zinc stearates intimately mixed with said pigment and suspended in the vehicle.

- 1.421.626. CASTER. AMOS W. WARNOCK, Everett, Mass., assignor to Economic Steel Rack Company, Everett, Mass., a corporation of Massachusetts. Filed Oct. 9, 1920. Serial No. 415,711. 5 Claims. (Cl. 16—21.)



4. A caster having a housing providing a recess therein, one side of a ball race in the housing adjacent said recess, a swivelling frame having a projecting portion loosely fitting said recess, the other side of said ball race in said projecting portion, and a series of balls in said ball race providing a lateral ball bearing, said housing and said frame also providing bearing surfaces for an annular thrust ball bearing, said thrust ball bearing of smaller effective diameter than said recess and said lateral ball bearing of substantially the same effective diameter as said recess.

- 1.421.627. PRIMER FOR INTERNAL-COMBUSTION ENGINES. HAROLD D. WATERHOUSE, Quincy, Mass., assignor, by mesne assignments, to Walter S. Crane, Joshua Crane, and Frank V. Stone, trustees. Filed Dec. 17, 1917. Serial No. 207,592. 8 Claims. (Cl. 123—180.)

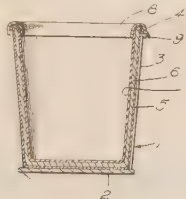


1. A primer for internal combustion engines comprising a valve device having an air passage which is contracted at some portion of its length and is adapted to be registered by operator controlled means with the intake pipe of the engine, a gasoline supply duct which is arranged to communicate with said contracted portion, said valve device constituting means to open and close said passage and duct.

- 1.421.628. SANITARY WASTE BASKET. DWIGHT EVERETT WATKINS, Galesburg, Ill. Filed Sept. 8, 1919. Serial No. 322,411. 2 Claims. (Cl. 220—65.)

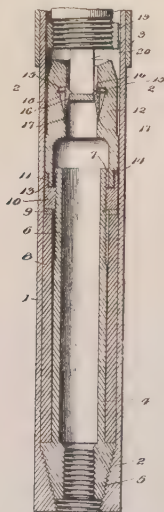
1. A basket comprising a supporting frame, the sides thereof being formed of spaced rods, a waterproof re-

ceptacle detachably mounted within said frame and having the upper marginal edge thereof extending upwardly of the tops of said frame rods, a substantially U-shaped ring member adapted for detachable disposition over the upper marginal edge of said receptacle to overlap the same



adjacent the tops of said frame rods, said ring member having transversely spaced apertures therein, and flexible fastening members for engaging through the apertures in said ring member and about said frame rods for detachably holding said ring member in assembled relation upon the frame and receptacle of said basket.

1,421,629. OIL PUMP. HERBERT H. WATKINS, Homer, La. Filed May 11, 1921. Serial No. 468,534. 2 Claims. (Cl. 103—80.)

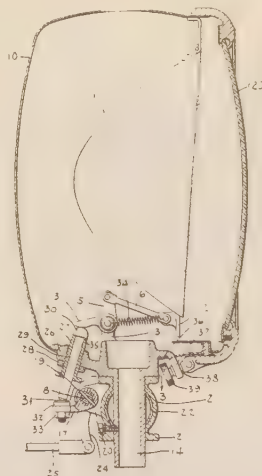


1. In combination with an oil pump, a working barrel having an internally screw threaded portion, a hollow cylindrical standing valve casing provided with an externally screw threaded portion engageable with the screw threaded portion of the working barrel, a head for said standing valve casing, internal spring pressed catches carried by said head, and a traveling valve casing having a substantially U-shaped extension formed on its lower end receivable in said head and adapted to be engaged by said spring pressed catches, as and for the purpose set forth.

1,421,630. TILTING REFLECTOR FOR MOTOR VEHICLES. HARVEY L. WATSON, Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company, Detroit, Mich. Filed Feb. 24, 1920. Serial No. 360,579. 11 Claims. (Cl. 240—41.)

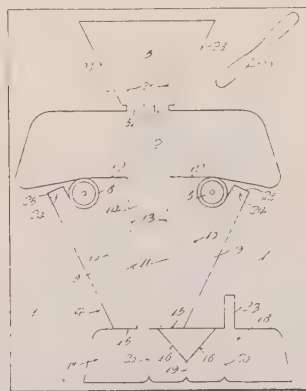
2. In a lamp construction, the combination of a lamp casing, a reflector pivotally supported therein, a bell crank pivotally supported in said casing, a link member operatively connecting one end of said bell crank and reflector for tilting the latter, spring means having one end associated with said operative connection for main-

taining said reflector in one position, a sleeve mounted in said casing, a plunger extending through said casing and slidable longitudinally of said sleeve and therein and



limited in movement and engaging the other end of said bell crank, and lever means without the casing for actuating said plunger in opposition to said spring means.

1,421,631. TOY AEROPLANE. HARRY M. WATTS, Shawnee, Okla. Filed Mar. 17, 1921. Serial No. 452,905. 4 Claims. (Cl. 244—12.)

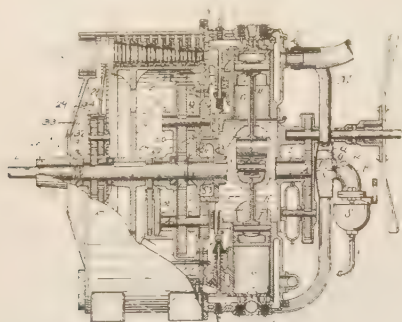


1. A toy aeroplane comprising a body portion, and an integral tail-forming strip extending transversely of the body at the rear end thereof and beyond the sides thereof and extending for the greater portion of its length beyond one side of the center of the body portion, the tail-forming strip being bent upwardly at a point intermediate the width of the body and then folded downwardly upon itself and having its free end portion bent to extend outwardly beyond the side of the body, the tail-forming strip when folded forming a horizontal stabilizer carrying an upwardly extending vertical stabilizer.

1,421,632. INTERNAL-COMBUSTION ENGINE. JOHN H. WEDIG, Granite City, Ill., assignor, by mesne assignments, to Sun Motors Corporation, Granite City, Ill., a Corporation of Illinois. Filed Apr. 29, 1918. Serial No. 231,352. 6 Claims. (Cl. 60—41.)

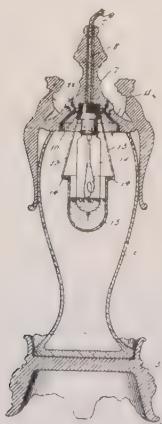
1. An internal combustion engine provided with bearings, a turbine shaft and a crank shaft mounted in said bearings, a turbine wheel mounted on its shaft, a train of wheel work connecting said turbine shaft and crank

shaft, a multiple number of cylinders radially disposed about said crank shaft and operatively connected thereto, a source of fuel supply connected to a central distributing drum, pipes connecting said drum to the respective cylinders,



ders, helicoidal spirals mounted at the inlet and outlet openings of said drum to give a whirling motion to the fuel charge being drawn into said cylinders successively, operative valves and means for ignition, all substantially as described.

1,421,633. INCENSE BURNER AND PERFUMER. LOUIS WEIDLICH and ALFRED J. FLAUDER, Bridgeport, Conn., assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 31, 1921. Serial No. 457,561. 2 Claims. (Cl. 219—41.)

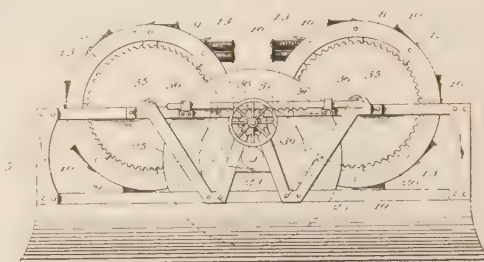


1. In a perfumer of the class described, the combination with a hollow receptacle, of a removable cover therefor having a lamp socket upon its inside and an electric wire connected through the cover to the socket, a hanger also secured to the cover, a liquid container removably supported in the hanger, an electric lamp supported in the socket and extended into the container to engage the liquid when carried therein.

1,421,634. ELECTRIC MOTOR. CORLISS L. WELTNER, Looneyville, W. Va. Filed June 21, 1921. Serial No. 479,357. 5 Claims. (Cl. 172—126.)

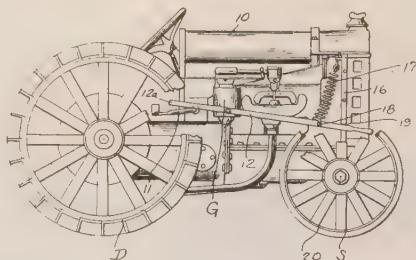
1. An electric motor comprising a pair of parallel shafts, wheels carried by said shafts and having their rims facing each other, electro-magnets carried by said wheel rims and having their poles so positioned that the

poles of the magnets of one wheel face the pole of the magnets of the other wheel during that portion of the



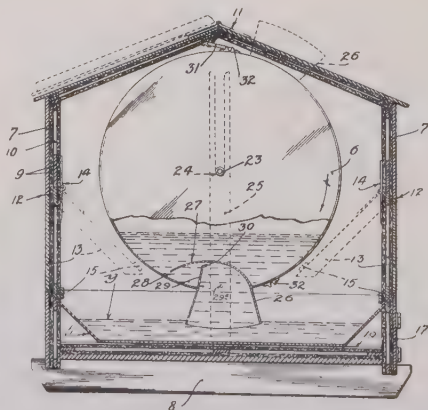
travel of the wheels when the magnets thereof are approaching each other, and means for energizing the magnets during the period they approach each other.

1,421,635. TRACTOR. ENOS WERTENBERGER, Laketon, Ind. Filed May 28, 1921. Serial No. 473,371. 4 Claims. (Cl. 180—82.)



1. The combination with a tractor embodying the usual drive, rear power axle, clutch operating lever for connecting and disconnecting the drive to and from the power axle and front axle pivoted for oscillation, of a pivoted lever mounted at the side of the tractor and engaging said clutch at its rear end and adapted to shift the clutch to disconnect the drive from the power axle when the front end thereof is elevated, means tending to elevate the front end of the lever, means preventing such elevation, and means carried by the front axle and co-acting with the lever to release the same from the last named means when the supporting wheels of the front axle are elevated from the ground.

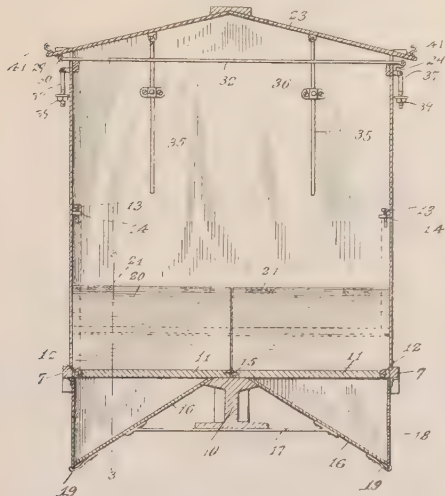
1,421,636. STOCK WATERER. ADOLPH C. WESTBY, Porter, Minn. Filed Dec. 8, 1919. Serial No. 343,373. 3 Claims. (Cl. 119—77.)



1. A stock waterer including a drinking trough, a reservoir mounted to turn from a filling to an emptying position

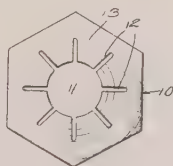
and having a combined filling and discharge cup, the bottom of said cup being located within the reservoir and having an opening therein, and a guard arranged, when the reservoir is turned from a filling to an emptying position, to extend above the opening in the bottom of the cup and away from the same in the direction of the turning movement of the reservoir, from a filling to an emptying position.

1,421,637. FREIGHT CAR. MARTIN J. WHELAN, Clifton Heights, Pa. Filed Nov. 4, 1919. Serial No. 335,738. 6 Claims. (Cl. 105-377.)



1. The combination with a car and a one piece top therefor; of means cooperating with the top and car and forming a double hinge with the top whereby the top will open from each side of the car.

1,421,638. NUT. JOHN A. WHEELER, Bloomington, Calif., assignor of one-tenth to Eber M. Lash, Rialto, Calif. Filed May 14, 1921. Serial No. 469,487. 9 Claims. (Cl. 85-32.)

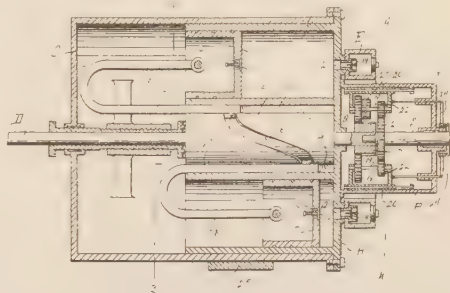


1. A nut concavo-convex in form, the central aperture of the nut being formed with a screw-thread, one of the faces of the thread throughout its length being approximately parallel to the outer face of the nut, the opposite face of the thread being outwardly inclined and toward the concave face of the nut.

1,421,639. SPEED-CHANGING MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Feb. 24, 1920. Serial No. 360,955. 2 Claims. (Cl. 192-59.)

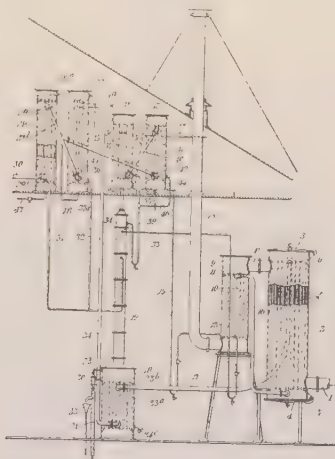
1. In a speed changing mechanism, a driving shaft, a driven shaft, a connection between said driving shaft and driven shaft including a casing mounted upon the driving shaft, said driving shaft and casing being capable of independent relative movement, cylinders arranged within the casing and movable therewith, a chamber in communication with each of the cylinders and the casing, means carried by the driving shaft and positioned within the casing for imparting rectilinear movement to the pistons, each of said pistons being provided with a port affording commu-

nication within the cylinder at opposite sides of the piston, said casing, cylinders and chamber being adapted to con-



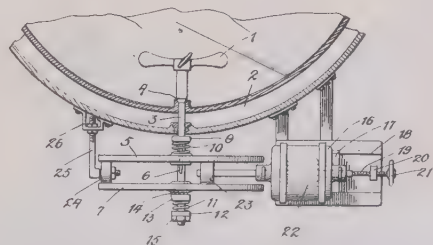
tain a mobile medium and a single means interposed in the chamber and operating automatically to control the flow of the mobile medium through the chamber and the cylinders.

1,421,640. PROCESS OF PRODUCING ETHYLENE. MILTON C. WHITAKER, New York, N. Y., and ARTHUR A. BACKHAUS, Baltimore, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed July 11, 1919. Serial No. 310,123. 4 Claims. (Cl. 260-170.)



1. The process of manufacturing ethylene from alcohol comprising preheating the alcohol to a temperature of from 300 to 500° C., and passing the resulting vapors of alcohol through a catalyzer maintained at a similar temperature in order to form ethylene.

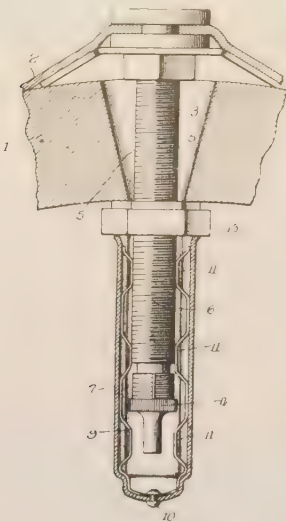
1,421,641. FRICTION DRIVE FOR MILK TANKS. GEORGE HALL WHITE, Washington, D. C., assignor to George P. Sacks, Bradley Hills, Md. Filed Sept. 9, 1921. Serial No. 499,502. 5 Claims. (Cl. 74-26.)



1. A friction drive having a shaft, opposing friction discs mounted thereon, a driving element cooperating with

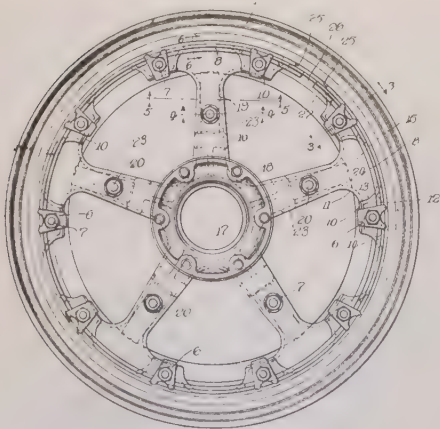
said discs, and means to adjust the pressure of said discs independently with respect to the element without inducing a corresponding endwise pressure of the shaft.

1,421,642. QUICK-DETACHABLE DUST CAP FOR PNEUMATIC TIRES. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed July 6, 1920. Serial No. 394,153. 4 Claims. (Cl. 152-12.)



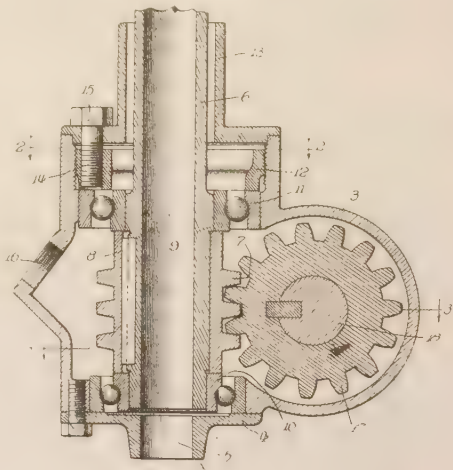
1. A tubular dust cap having a short section provided with internal mutilated threads and with a stem-pressing spring fixed to the cap, lying in a non-threaded portion thereof and normally projecting within the circle of the threaded portion of a valve stem upon which it may be placed.

1,421,643. CAST WHEEL FOR AUTOMOBILES. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed July 9, 1920. Serial No. 394,996. 5 Claims. (Cl. 301-65.)



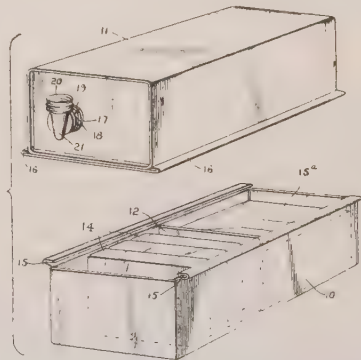
3. The combination with a flat rim-receiving felloe member carried inward at intervals to form peripheral recesses, of spokes terminally secured on each side to the adjacent inwardly carried portions of the felloe.

1,421,644. BEARING ASSEMBLY. CHILDE HAROLD WILLS, Marysville, Mich. Filed Nov. 6, 1920. Serial No. 422,158. 7 Claims. (Cl. 74-79.)



1. In a bearing housing, a shaft passing into said housing and a thrust bearing associated with said shaft, a removable member secured to the housing adapted to retain the bearing in an adjusted position, and means whereby the removable member may be removed and returned, the means being adapted to stop the return at the adjusted position.

1,421,645. TOILET CASE. DONALD STUART WILSON, Greenwich, Conn. Filed Jan. 4, 1921. Serial No. 434,873. 1 Claim. (Cl. 220-20.)

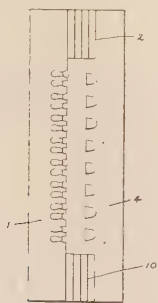


In a toilet case of the character described, the combination of a container having one end open and including parallel oppositely disposed grooves defining two edges of the open end, and an enclosed container having a restricted outlet at one end and provided with parallel flanges projecting outwardly from opposite corners and extending the maximum length of said enclosed container and adapted to slidably engage in the grooves of said first named container, whereby relative movement of the two elements will either expose or enclose the open end of said first named container.

1,421,646. SHOE-SHINING PARLOR. DANIEL D. WOLFE, Washington, D. C., assignor of one-half to Harry Cohen, Washington, D. C. Filed Mar. 8, 1921. Serial No. 450,713. 11 Claims. (Cl. 20-1.)

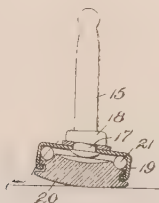
9. A shoe shining parlor comprising an elevated platform, chairs and foot-rests on said platform, a passage

way on said platform behind said chairs, an entrance stairway leading to said passageway at one end thereof,



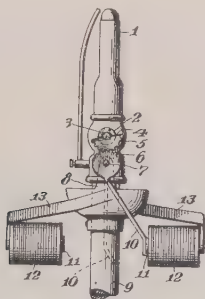
and an exit stairway leading from said passageway at the opposite end thereof.

1,421,647. CASTER. JEAN F. WOLFS, Newark, N. J. Filed Oct. 11, 1921. Serial No. 507,104. 5 Claims. (Cl. 16-42.)



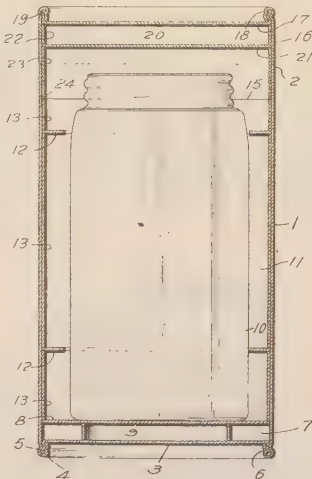
4. A caster comprising a rotatable element of substantially flat form with a rounded face, and rotatable means for securing the rotatable element to the leg of a piece of furniture so that the element rotates in a plane slightly inclined relative to the horizontal, and the axis of rotation of the element is eccentric to the axis of rotation of said means.

1,421,648. ELECTRICALLY-OPERATED VALVE OF A GAS BURNER OR GAS SUPPLY. JULIUS WOLFSON, Philadelphia, Pa. Filed Jan. 29, 1919. Serial No. 273,743. 1 Claim. (Cl. 137-139.)



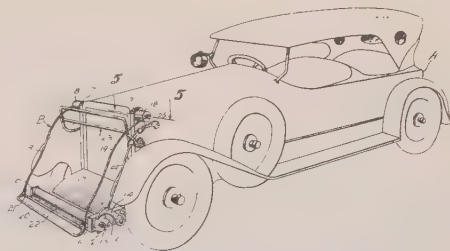
A rotary gas valve of the character stated comprising oscillatory gears one connected with each end of the plug of the valve, pivotally mounted gears meshing therewith, a support attachable to the supply pipe, horizontal magnets supported thereby, armatures for said magnets movable with the last-named gears and means carrying said armatures and connected with said last-named gears, said means being extended in substantially opposite directions and the magnets being disposed upon opposite sides of the supply pipe.

1,421,649. INSULATING CONTAINER AND THE LIKE. WILBUR L. WRIGHT, Fulton, N. Y., assignor to Seal-right Co., Inc., Fulton, N. Y., a Corporation of New York. Filed Oct. 20, 1919. Serial No. 331,796. 15 Claims. (Cl. 229-45.)



1. The combination with a storage receptacle, of a container therefor having false ends spaced from its outer ends and internal spacing members for positioning said receptacle out of contact with the walls of said container, said receptacle being of less height than the space between said false ends, and of less cross-sectional area than the space within said spacing members.

1,421,650. LIFE-SAVING FENDER. JOSEPH E. WYCKOFF, Los Angeles, Calif., assignor of one-half to David B. Wyckoff, Glendale, Calif. Filed Dec. 27, 1921. Serial No. 524,889. 5 Claims. (Cl. 293-15.)

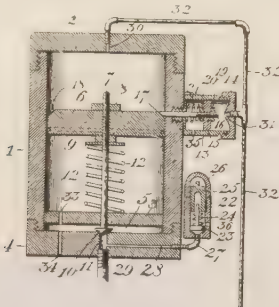


1. In combination with a vehicle, a device of the character described comprising a flexible curtain, means to secure said curtain to the front of the vehicle adjacent the ground, said means being arranged to hold said curtain folded, and means operated by collision of a person with the front of a vehicle to draw said curtain across the front of the vehicle to prevent said person from being projected forwardly.

1,421,651. AIR-BRAKE PRESSURE RETAINER. ABRAHAM YOUNG, Montevideo, Minn. Filed Oct. 23, 1920. Serial No. 418,952. 13 Claims. (Cl. 303-77.)

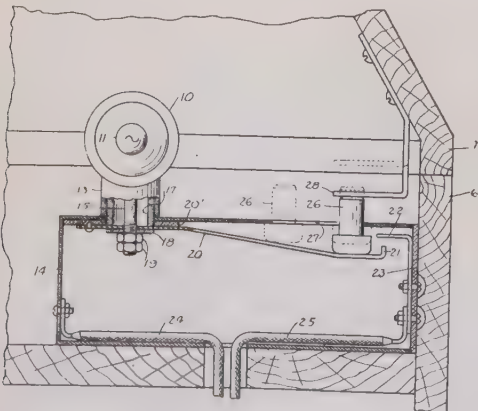
1. The combination with an air brake having an exhaust port, of a primary and a secondary closure for said port, the secondary closure being operated in one direction by air pressure and in the opposite direction by spring pressure; means under the control of the operator for operating said secondary closure independently of the primary closure, whereby the escape of air from said exhaust port may be prevented when the primary closure is open; and means interposed between said closures for the escape of air above a given pressure.

5. A pressure retainer for air brakes, comprising a retainer cylinder having a chamber therein in communication with the outer air; a passageway leading from the exhaust port of the air brake into said chamber; a valve for controlling the passage of air through said passageway; a piston in said chamber connected with said valve and movable back and forth to open and close the valve; a locking cylinder connected with said retainer cylinder and having a piston movable back and forth carrying a locking stem for engaging and locking the piston of the retainer cylinder when it has moved into position to close the valve carried thereby; a pipe leading from the train line or auxiliary into the head end of each of said cylinders to introduced train line pressure thereinto, the pistons in said cylinders being movable inwardly by said air pressure, each of said pistons being provided with a spring for resisting its inward movement; said retainer cylinder



having a bore extending inwardly from its outer side and tapping said valved passageway to form a by-path for the escape of air therefrom when the exhaust port of the triple at one end thereof is open and the valve at the other end thereof closed; a spring-pressed valve at the outer end of said by-path for holding the same normally closed to only permit the escape therethrough of air above a given pressure, the spring in the retainer cylinder being adapted to overcome a greater air pressure than the normal pressure of the train line when the train is running on level track with the brakes idle, the spring in the locking cylinder being adapted to be overcome by a less pressure than said normal train line pressure, and the spring pressure on the valve at the outlet of the by-path being adapted to be overcome by an air pressure still less than that required to overcome the pressure of the spring in the locking cylinder.

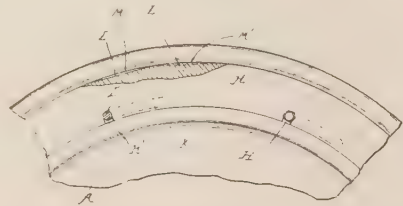
1,421,652. PHONOGRAPH. JOHN YOUNGQUIST, Chicago, Ill. Filed Feb. 3, 1921. Serial No. 442,249. 3 Claims. (Cl. 240—2.)



1. In an illuminating device for phonographs comprising a metallic supporting surface having an aperture therein; a metallic sleeve resting on said supporting sur-

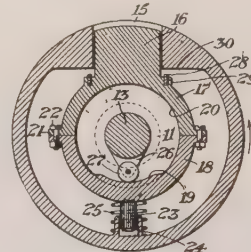
face over said aperture; an electric light casing rotatably supported on said sleeve; a switch member disposed across said aperture on the under side of said supporting surface and being insulated therefrom; and a bolt for rotatably retaining said casing on said sleeve and engaging said switch member for securing said sleeve on said supporting surface, said switch member and said bolt forming a conductor to said electric light, the circuit being completed through said sleeve and said supporting surface, substantially as described.

1,421,653. CAR WHEEL. CHARLES C. ZABRISKIE, Highland Park, Mich. Filed May 27, 1921. Serial No. 473,116. 6 Claims. (Cl. 295—10.)



1. In a vehicle wheel, the combination with a rim having a tread portion, and a ring forming a complementary tread portion rotatively adjustable to throw out of registration any flat spots therein.

1,421,654. GLUE ROLL. PHILIP ZALKIND, New York, N. Y. Filed July 8, 1920. Serial No. 394,694. 3 Claims. (Cl. 91—48.)

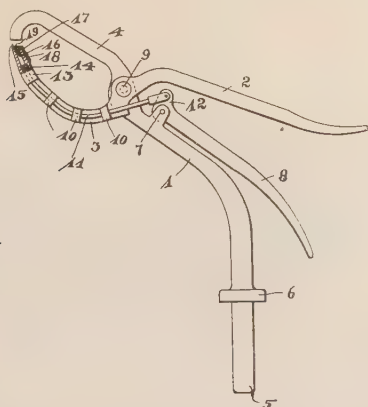


1. In an apparatus of the class described, a stationary shaft, a cylinder mounted to revolve on the said shaft and having an opening therein, a plunger fitting the opening in the cylinder, a cam connected with the said plunger, means for normally maintaining the cam and plunger in such a position that the face of the plunger conforms to the surface of the cylinder, and a cam connected to the said shaft and adapted at predetermined times in the revolution of the cylinder to engage the aforesaid cam to move the same and the plunger to cause the face of the plunger to assume a position beneath the surface of the cylinder.

1,421,655. SOLE TACKER. CHARLES F. ZIEGLER, Los Angeles, Calif. Filed Sept. 25, 1920. Serial No. 412,742. 3 Claims. (Cl. 1—47.)

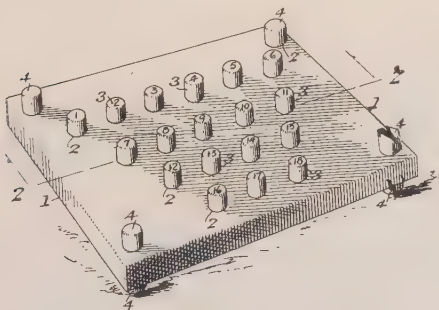
2. In a sole tacking device, in combination with tongs having a longitudinal passage in the front end of one of the jaw members for receiving and guiding nails to a certain point against the opposite jaw member, the hollow jaw member having a form to reach into a shoe to allow a placing of a tack through a seam in the direction from the inside of the shoe towards the outside, an engaging member at the end of the hollow jaw member extending beyond the front end of the jaw member parallel with the

longitudinal axis of the passage through the jaw member, and a spring guiding member at the end of said hollow jaw member having a notched termination in alignment



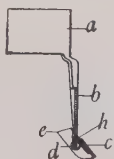
with the passage through the jaw member to guide a nail from the passage and beyond the passage in a certain direction in alignment with the passage.

1,421,656. GAME. JOSEPH B. ABELE, Philadelphia, Pa. Filed May 21, 1920. Serial No. 383,029. 1 Claim. (Cl. 46—41.)



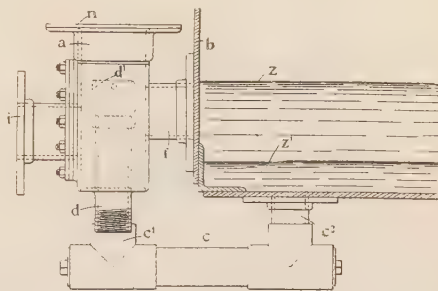
A game consisting of a two-faced board having openings therethrough, pins adapted to partly occupy said openings and movable therein to and from the opposite faces of the board, means on the opposite faces of the board adapted to raise the under face of the latter above the support on which the board is placed allowing the pins when the game is played to be reset for replaying the game when the board is reversed and elbow-like spring members having limbs connected respectively with the sides of said pins and projecting therefrom, the projecting limbs being adapted to engage the walls of said openings and being movable with the pins.

1,421,657. PENCIL AND PEN CLIP. ALFRED ALLEN, Birmingham, England. Filed Dec. 12, 1921. Serial No. 521,882. 2 Claims. (Cl. 24—11.)



1. A pen or pencil clip consisting of an extension secured at one end to a pen or pencil, lateral hinge projections at the free end of the extension, a claw formed with apertures engaged by the said projections, and a coiled spring on the extension acting on the claw for moving it into operative position, substantially as described.

1,421,658. SEPARATOR EMPLOYED FOR THE SEPARATION OF LIQUIDS OF DIFFERENT DENSITY. WILLIAM HENRY BATEMAN, London, England. Filed Jan. 17, 1922. Serial No. 529,973. 6 Claims. (Cl. 210—51.)



1. An outflow regulator for separators employed for the separation of liquids settling at different levels according to their densities, comprising a casing formed into two adjacent compartments, connections between the said respective compartments and the separator adapted for the admission into the respective compartments of the denser and less dense liquids from the separator, means comprising an outlet pipe in one of the said compartments, said outlet pipe being open at its upper end and adapted to serve as the downward path of discharge of the denser liquid from the said compartment, and a weir in the second compartment for determining the maximum height of the combined column of liquids within the separator, said weir serving as the path of discharge of the less dense liquid from the separator, substantially as described.

1,421,659. LAPPING MACHINE. WALTER S. BECKER, Little Falls, N. Y., assignor to Little Falls Fibre Company, Little Falls, N. Y., a Corporation. Filed Jan. 25, 1921. Serial No. 439,786. 2 Claims. (Cl. 19—163.)

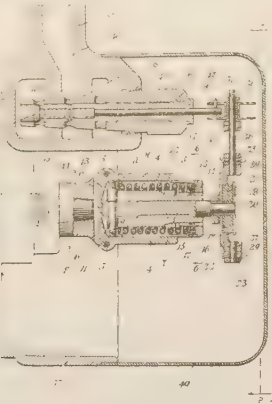


1. In a machine of the character described, the combination with the main frame and a supplemental supporting frame, the carriage of the "camel back" lapper and the transverse apron or conveyor mounted on said supplemental frame; means for directly reciprocating the lapper carriage across said apron or conveyor, said means comprising rotating disks mounted on said supplemental frame, pitman bars having one of their ends connected to said carriage and having their other ends radially adjustably connected to said rotating disks, and means for rotating said disks, said disks and their rotating means being located on said supplemental frame above the plane in which said carriage moves and beneath the "camel back" conveyor.

1,421,660. GOVERNOR. ELI J. BLAKE, Buffalo, N. Y., assignor to Gould Coupler Company, a Corporation of New York. Filed Feb. 10, 1919. Serial No. 275,967. 10 Claims. (Cl. 264—7.)

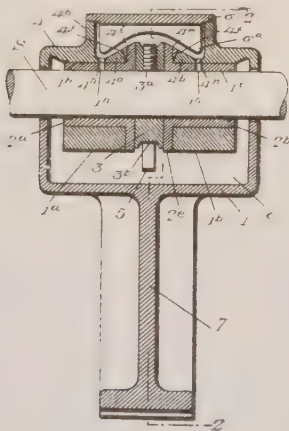
1. In a governor mechanism the combination of a control valve having a sliding valve member, a member rotating on an axis parallel to the movement of said sliding valve member, a pivoted frame, means connecting said sliding valve member with said pivoted frame, said valve

being unbalanced whereby the valve member normally tends to swing said frame about its pivot and close the valve, a spring acting on said frame opposing the closing



of the valve, and centrifugal means operated by said rotating member and acting on said spring to permit the valve to close responsive to speed variations of the rotating member.

- 1,421,661. SPLIT LUBRICATING BEARING FOR SHAFTS, ETC. PAUL G. BOGDANOFF, Battle Creek, Mich. Filed Nov. 10, 1919. Serial No. 336,790. 17 Claims. (Cl. 64—31.)

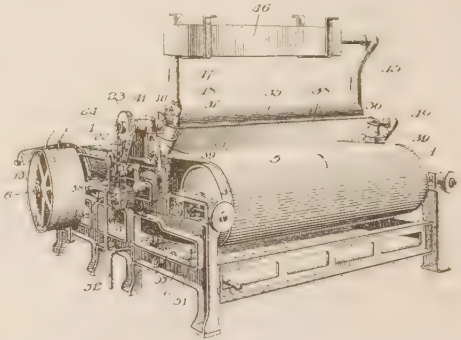


1. In a journal box, a casing divided longitudinally into upper and lower parts, each containing transverse bearing members to support sections of a bushing; the upper part having oppositely inclined portions and holes at the lowermost part of such inclined portions to direct oil to the bushing; a bushing divided longitudinally and transversely into four sections, each section being fitted to a corresponding bearing member of the casing, the bushing sections being spaced apart longitudinally; a shaft journaled in the bushing; and a collar on said shaft intermediate the transversely spaced bushing sections.

- 1,421,662. MACHINE FOR TREATING HIDES AND SKINS. CHARLES P. ROSSERT, Milwaukee, Wis., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 16, 1920. Serial No. 431,151. 26 Claims. (Cl. 91—44.)

1. An apparatus for applying substances to hides and the like having means for delivering the substance to a position adjacent the hide, a flexible strip for receiving a portion of the substance therefrom, means for moving said

strip at a comparatively high velocity to throw the substance received thereby onto said hide and an agitating device located in proximity to said substance delivering means.

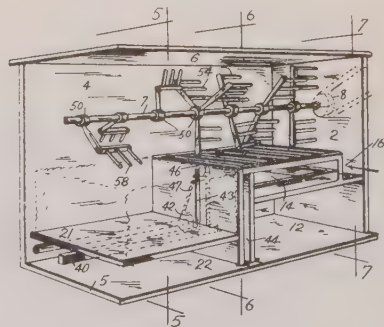


12. In an apparatus for applying plastic substances to hides or other articles, the combination of a conveyor, means for delivering the plastic substance to a point adjacent the conveyor, a strip for removing portions of the substance from said means and throwing such substance onto an article on the conveyor, a scraper for removing the substance which falls on the conveyor and a water spray pipe discharging against the bottom of said conveyor.

19. In a machine of the character described, the combination of an agitator made up in sections, each section having oppositely disposed ridges thereon, a feed roll in proximity to said agitator, and a distributing device in proximity to said feed roll and having a flexible strip adapted to contact therewith.

24. In a hide treating machine, a hopper for the sulfid compound having detachable end pieces, and a body portion provided with end brackets having flanges thereon, a housing having flanges to which said bracket flanges are secured, an agitator in said hopper, and means for actuating said agitator.

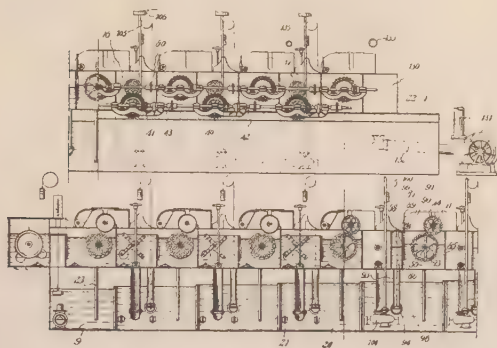
- 1,421,663. HANDLING KAPOK. LOUIS GRAND BROEL, Leichhardt, near Sydney, New South Wales, Australia. Filed Feb. 23, 1921. Serial No. 447,359. 6 Claims. (Cl. 19—90.)



6. In an apparatus for teasing and cleaning stuffing material, the combination with the elements claimed in claim 2, of a rotary exhaust fan and blower in communication with said delivery outlet adapted to draw air into said chamber and to exhaust it therefrom, said fan comprising a shaft, a wheel carried by the shaft and being provided with a series of tangentially disposed ribs projecting from a back plate to form pockets between adjacent ribs, a solid metal pipe attached at one end to said fan and the opposite end thereof being adapted to project into an air impermeable cover which is to be stuffed,

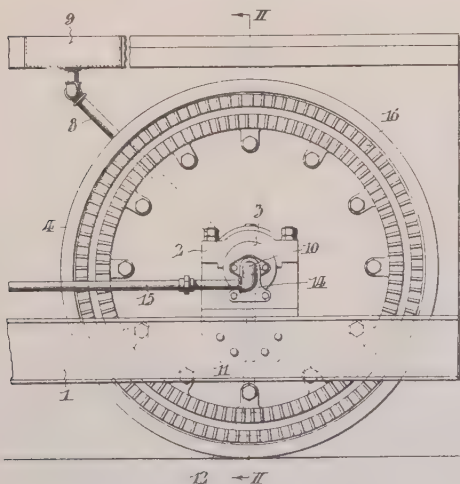
and a perforated metal sleeve disposed about said pipe and attached thereto at the free end of the latter and adapted to be connected with said pipe to said cover and to by-pass to atmosphere air which has been blown into said cover with the said stuffing material.

1,421,664. METHOD OF AND APPARATUS FOR WASHING PULP. ORTON B. BROWN, HUGH K. MOORE, and HOWARD PARKER, Berlin, N. H., and HERMAN M. MARTINSON, La Tuque, Quebec, Canada, assignors to Brown Company, Portland, Me., a Corporation of Maine. Filed Oct. 22, 1919. Serial No. 332,402. 40 Claims. (Cl. 141—12.)



8. An apparatus for washing fibrous material, which comprises a series of associated washing and screening tanks provided with agitators and rotary screens, means for causing the wash liquor to be passed continuously and successively therethrough in one direction, and means for causing the fibrous material to be passed therethrough in the opposite direction, whereby the said fibrous material and the wash liquor are delivered at opposite ends of the apparatus.

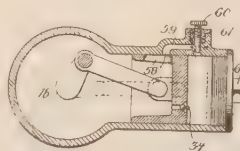
1,421,665. TANDEM ROLLER. FRANK A. BROWNE, Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed Nov. 18, 1916. Serial No. 132,235. 2 Claims. (Cl. 94—50.)



1. In a tandem roller, the combination of a completely closed hollow steam engine-driven roller, with axially pierced trunnions, a storage receptacle for water for the steam engine, and pipe connections communicating with the interior of the roller only through the axis of

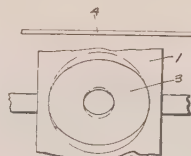
each trunnion, one of which communicates with the storage reservoir, so that withdrawal of water through the other connection from the roller to supply the engine, occasions replacement thereof by a similar amount of water drawn by the first mentioned connection from the storage reservoir, thus keeping the roller continuously filled with water.

1,421,666. DOOR CLOSER AND CHECK. WILLIAM J. BRYON, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,801. 26 Claims. (Cl. 16—66.)



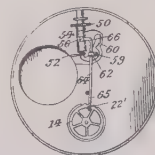
6. In a device of the class described, a cylinder, a piston operable in said cylinder, a movable part having operative connection with the piston, said connection including a spindle having a crank-arm and a link between the crank-arm and the piston, a passageway establishing communication between opposite ends of the cylinder, said passageway having a port adapted to be closed over by the piston near the end of its stroke to produce a short positive cushion, and closing means for putting the piston and checking mechanism of which the piston forms a part, into play.

1,421,667. METHOD OF MAKING WHEEL DISKS. EDWARD G. BUDD, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 24, 1919. Serial No. 299,635. 2 Claims. (Cl. 80—16.)



1. The method of forming a tapered wheel disk from a metal blank comprising passing said blank between a pair of rolls, one of which has an elliptical recess, with its major axis lengthwise of the roll, said recess increasing gradually in depth from the periphery to its center, and having a central elliptical recess of greater and uniform depth, with its major axis lengthwise of the roll.

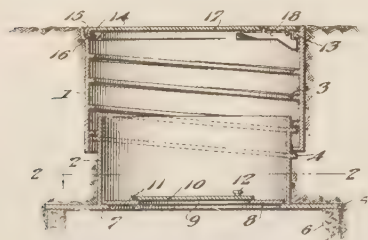
1,421,668. SECOND-HAND-SETTING MECHANISM FOR WATCHES. ABRAHAM BURNSTINE, Washington, D. C. Original application filed Mar. 31, 1922, Serial No. 548,324. Divided and this application filed May 25, 1922. Serial No. 563,476. 5 Claims. (Cl. 58—63.)



5. In a watch, in combination with the watch movement, the winding stem having thereon a grooved clutch member, the winding and setting lever and a seconds-hand wheel, a bracket on said lever, a bar spring passing

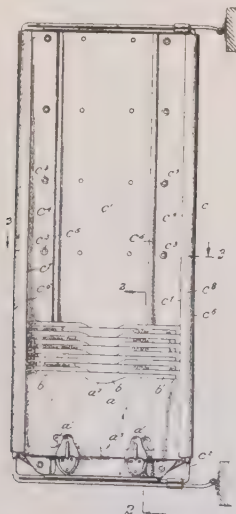
through said bracket, a yoke on the upper end of said spring disposed within the groove of said clutch member, the lower end of said spring being disposed in proximity to said second hand wheel and adapted to be moved through the operation of said clutch member into and out of engagement therewith.

- 1,421,669. METER BOX COVER. JOHN W. CALHOUN, Chester, Pa. Original application filed Mar. 20, 1919, Serial No. 283,713. Divided and this application filed May 28, 1921. Serial No. 473,516. 4 Claims. (Cl. 94—34.)



1. A cover for meter boxes including upper and lower casing members having openings therethrough, a door for the opening of the upper casing member, a cover ring fitted with opening of the lower casing member, and a door to close the opening of said covering.

- 1,421,670. INDEX OR FILE. CHARLES S. CAMPBELL, New Haven, and WILLIAM H. DAY, East Haven, Conn., assignors to Index Visible, Inc., New Haven, Conn., a Corporation of New York. Filed Nov. 30, 1920. Serial No. 427,302. 5 Claims. (Cl. 129—16.)

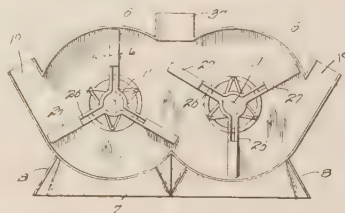


1. In an index or file, a sheet metal support comprising a main body portion and lateral strips secured thereon and having their edge portions turned forward and inward to form guard flanges, inwardly directed retaining flanges being formed on said support.

2. In an index or file the combination of a support having retaining flanges, index cards having die cut portions or ears to engage said flanges and to maintain the cards in overlapped relation, and record cards of less

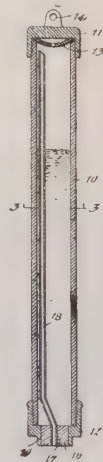
width in a vertical direction than the index cards and bearing at one edge against the die cut portions or ears of the corresponding index cards.

- 1,421,671. DUAL ROTARY SNOWPLOW. JOSEPH C. CHLADEK, Mount Horeb, Wis., assignor of one fourth to Roy A. Beat and one-fourth to John Beat, both of Mount Horeb, Wis. Filed Jan. 13, 1921. Serial No. 436,927. 6 Claims. (Cl. 37—63.)



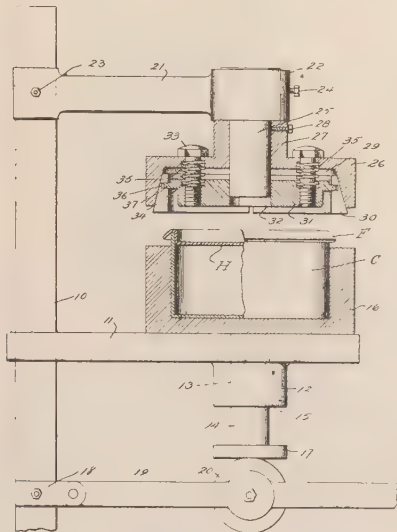
1. In a dual rotary snow plow adapted to plow through deep drifts, the combination of a scoop, dual semi-circular fan casings positioned to receive snow from the scoop, fan blades of suitable length to sweep in the respective casings, each of the casings having lateral passages opening out of the lower portion thereof and positioned and shaped to discharge snow upwardly and outwardly from the casings when the lowermost fan blades are rotating away from each other, the fan blades being positioned to overlap without contact, and means for driving the fans in a direction to throw the snow laterally and upwardly from the lateral discharge passages of the respective casings.

- 1,421,672. DEEP-SEA SOUNDER. WILLIAM E. CLARKE, Buffalo, N. Y. Filed June 3, 1920. Serial No. 386,171. 1 Claim. (Cl. 73—5.)



A valveless deep sea sounder, comprising a main tube irrefrangible throughout its length and on all sides and having a bottom cap provided with a central opening, a valveless open-ended water inlet tube having its lower end fitted in said opening, said inlet tube being irrefrangible and the portion thereof above said cap being bent toward the wall of said main tube and extended upwardly along the same nearly to its top whereby the central portion of the main tube is left unobstructed to receive a scale-bar, and a removable cap applied to the upper end of said main tube.

1,421,673. CAN-CAPPING TOOL. FREDERICK COATES, Cincinnati, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 27, 1921. Serial No. 464,832. 12 Claims. (Cl. 93-55.)



1. In a machine of the class described, a can supporting head, a crimping head including means to primarily bend a can top flange downward and thereafter force said flange inward, and means to move one of said heads toward the other.

1,421,674. NURSERY LABEL. GLEN I. COLBURN, Geneva, N. Y. Filed Mar. 6, 1922. Serial No. 541,360. 2 Claims. (Cl. 40-6.)

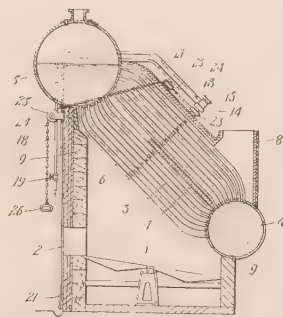


2. A tag comprising a sheet of material perforated transversely adjacent its ends and bearing a legend on one side between said perforations and the longitudinal edges, said sheet having its sides folded inwardly upon the central portion of the sheet to cover the legend thereon, the resultant strip being folded transversely at its center with the ends and said perforations aligning respectively, and eyelets secured at the longitudinal centers of the ends of the sheet and aligning when said sheet is folded, the other side of the sheet being provided between the lines of longitudinal folding with indicia and adjacent one eyelet with corresponding indicia, the legend portion of the sheet being detachable.

1,421,675. SOOT BLOWER. JAMES M. COLVEN, Yonkers, N. Y., and ARTHUR LOWY, Newark, N. J., assignors to New York Engineering Company, a Corporation of New York. Filed May 29, 1918. Serial No. 237,336. 10 Claims. (Cl. 122-392.)

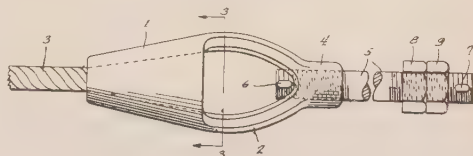
1. A boiler soot blower comprising a relatively movable nozzle and supply pipe, a port to open and close communication from said supply pipe to said nozzle, a vent for

said supply pipe, means normally holding said nozzle and supply pipe to close said port and open said vent, and



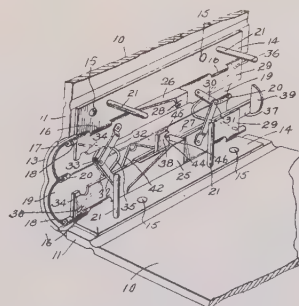
means for effecting relative movement of said nozzle and supply pipe to open said port and close said vent.

1,421,676. WIRE-ROPE SOCKET. EDWARD W. DANIEL, Cleveland, Ohio. Filed Nov. 25, 1921. Serial No. 517,708. 1 Claim. (Cl. 24-123.)



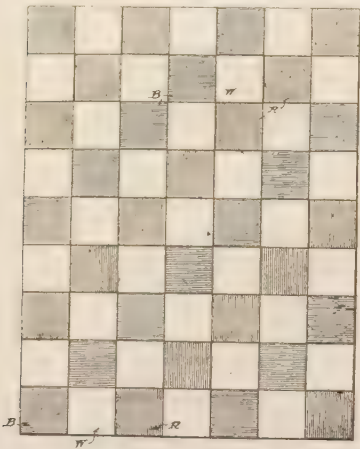
A wire rope socket comprising a tapered cup and symmetrically arranged arms integral with said cup and extending from the larger end thereof, said arms terminating in an integrally formed head, said cup being provided with an aperture through the smaller end thereof in the direction of the longitudinal axis of said cup, and said head having a threaded aperture extending there-through in alignment with the aperture through said cup, and a threaded shank having one end portion engaging the threaded aperture of said head, and adjustable connecting means provided upon the other end of said shank, thereby providing means for taking up slack in the cable.

1,421,677. LOOSE-LEAF BINDER OR FILE. WILLIAM FRED DUNNING, Washington, D. C. Filed Aug. 24, 1920. Serial No. 405,648. 6 Claims. (Cl. 129-8.)



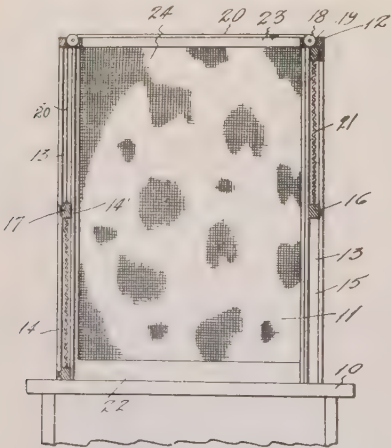
1. In a device of the class described a pair of side sections, a back hingedly uniting said side sections, latches carried by said side sections, straight binding posts projecting from said side sections, and automatic means cooperating with said latches for retaining the binding posts in closed position.

1,421,678. GAME BOARD AND GAME. RUDOLPH G. EBERT, Portland, Oreg. Filed Apr. 26, 1920. Serial No. 376,775. 2 Claims. (Cl. 46—64.)



1. In a game of the kind described, a game board consisting of sixty-three squares of three alternating colors and three sets of twenty-one paying pieces each colored as are the squares, the arrangement of the board being nine rows of seven squares each, substantially as shown and described.

1,421,679. ORDER-FILLING COUNTER. FLOYD A. FERRIS, Dallas, Tex. Filed Aug. 26, 1921. Serial No. 495,574. 2 Claims. (Cl. 211—11.)

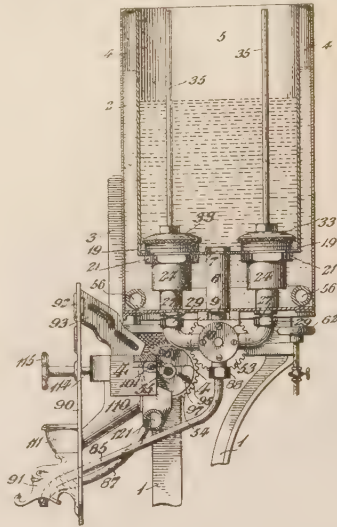


1. In a device of the character described, an elongated counter, uprights mounted on each side of the counter, transverse partitions extending from the uprights on one side of the counter to uprights on the opposite side of the counter, sashes slidable between the uprights, pulleys disposed between the upper ends of the uprights, and flexible connections extending from the sashes on one side over the pulleys to the sashes on the other side.

1,421,680. LIQUID-VENDING MACHINE. JOHN FEUSCHE, Philadelphia, Pa. Filed Sept. 16, 1919. Serial No. 324,154. 13 Claims. (Cl. 221—116.)

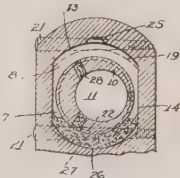
1. In a liquid vending machine, a liquid container comprising an inner and an outer casing having a chamber between them to receive a temperature changing medium, a plurality of measuring cups in said chamber, a valve

exterior of said container to alternately admit liquid from said inner casing into said cups and to alternately



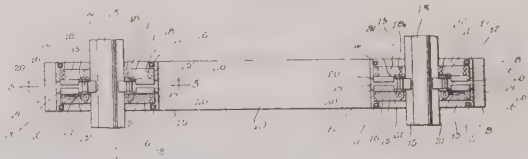
permit the discharge of liquid from said cups, a source of heat in proximity to said valve, and means to control said valve.

1,421,681. LUBRICATING DEVICE. GOTTLOR FUEGEL and HERMAN SCHMID, Brooklyn, N. Y., assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y., a Corporation of Delaware. Original application filed Dec. 27, 1918, Serial No. 268,554. Divided and this application filed Aug. 30, 1919. Serial No. 320,912. 4 Claims. (Cl. 64—24.)



1. The combination of a support having an aperture and a recess in said aperture, an eccentric sleeve in said support to engage a shaft, absorbent material in said recess and engaging said sleeve, said sleeve having holes therethrough containing absorbent material to make contact with the absorbent material in the recess and conduct lubricant to the inside of the sleeve.

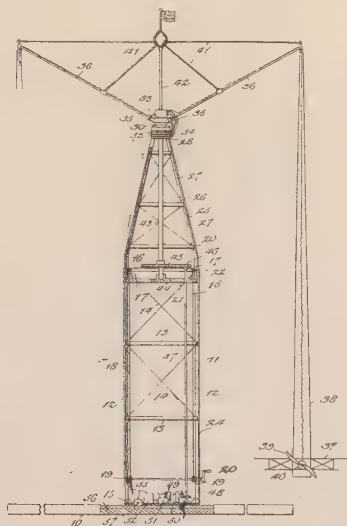
1,421,682. RAIL FASTENER. JOHN P. GARDNER, Soldiers Home, Calif. Filed Sept. 27, 1921. Serial No. 503,606. 3 Claims. (Cl. 238—331.)



1. A rail fastener for attachment to a rail tie, the same consisting of a base plate provided at opposite sides of and perpendicular to the rail seat with guides which are thus disposed perpendicular to a rail arranged on said seat, bolts slidingly fitted in said guides and provided at

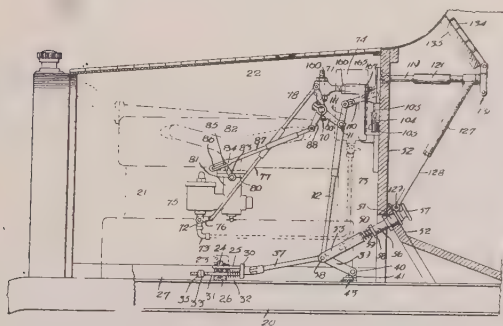
their inner ends with means for engaging the rail foot or base, and means for locking said bolts in rail engaging position, said guides consisting of complementary clips having base flanges riveted to the base plate and upstanding parallel flanges arranged in spaced relation.

1,421,683. CAPTIVE AEROPLANE. RICHARD GARVEY and THEODORE J. MINER, New York, N. Y. Filed Dec. 13, 1920. Serial No. 430,238. 3 Claims. (Cl. 46—27.)



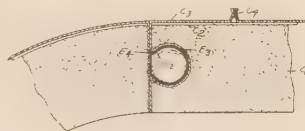
1. In a device of the class described, a base portion, a pair of telescoping tower portions, arms removably supported by one of said tower portions, cars suspended from said arms, a shaft for each of said tower sections, gearing adapted to connect said shafts, and means supported on said base portion for operating said shafts to effect rotary movement of said arms and cars.

1,421,684. LOCKING DEVICE FOR AUTOMOBILES. JOHN P. GERAUGHTY, Jersey City, N. J. Filed Nov. 18, 1920. Serial No. 424,937. 6 Claims. (Cl. 180—82.)



1. In a motor driven vehicle, a motor, a hood inclosing the motor, a locking device within the hood for locking the latter, a plurality of motor controlling devices arranged within the hood and mounted with different members of the motor for rendering the latter ineffective, a rock shaft within the hood and connected with the said motor controlling devices, an operating means controlled by an operator and connected with the said shaft and with the said hood locking device, and locking means controlled by an operator and connected with the said shaft and said operating means to lock the shaft and operating means against movement after the hood locking device and the said plurality of motor controlling devices have been moved into operative position by the said operating means.

1,421,685. VACUUM CONTAINER. CHARLES E. GLESSNER, Portland, Oreg. Filed Jan. 20, 1919. Serial No. 272,068. 3 Claims. (Cl. 72—13.)

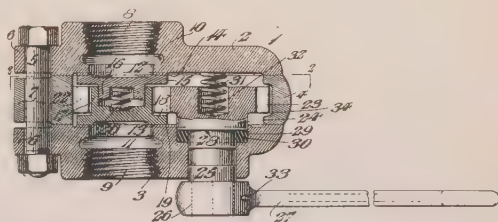


2. A vacuum container consisting of a concrete tank of sufficient strength to withstand atmospheric pressure, enveloped by an air-tight metallic covering, and having expansion joints in said covering produced by butting the angular flanges formed on the edges of the sheets to form an X with the upper V hermetically joined with solder.

1,421,686. ZINC ALLOY. HANS GOLDSCHMIDT and KARL MÜLLER, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware, Filed Apr. 19, 1917. Serial No. 163,261. 3 Claims. (Cl. 75—1.)

1. An alloy consisting predominantly of zinc and from about 0.5 to 4% manganese.

1,421,687. VALVE. GEORGE P. HAYNES, Brooklyn, N. Y. Filed Dec. 15, 1920. Serial No. 431,031. 6 Claims. (Cl. 251—18.)



1. In a valve, a casing having inlet and outlet openings and provided with an internal rack, valves for controlling said openings, a spring intermediate said valves, a pinion formed on one of said valves and in mesh with said rack, an operating post journaled in said casing and a gear carried by said operating post and in mesh with said pinion.

1,421,688. METHOD OF TREATING ACIDS. INGENDIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed June 16, 1921. Serial No. 477,936. 19 Claims. (Cl. 23—1.)

1. The method of treating sludge acids or separated sludge acids which consists in first subjecting a body of the acid to heat treatment while keeping the same at a strength below the charring or coking point thereof and in thereafter subjecting the acid to further heat treatment.

1,421,689. STEREOTYPERS AND PRINTER'S TOOL. SYDNEY B. HOPKINS, Summit, N. J., and CHARLES JELINEK, Richmond Hill, N. Y. Filed Dec. 14, 1920. Serial No. 430,777. 5 Claims. (Cl. 294—1.)

1. A stereotyper's and printer's hand tool adapted to engage and raise one end of a chase or slab and slide it in and out upon the steam table, said tool having a longitudinally extending stem with a hand grip at the top

thereof, the lower end of the stem terminating in an upwardly curved portion adapted to engage with the



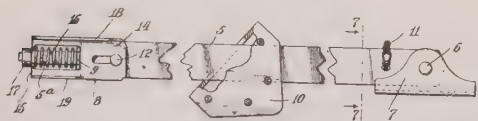
chase or slab, and a pair of outwardly extending rollers, one at either side of the stem, at the beginning of said upwardly curved portion.

1,421,690. RUBBER GARTER. EDWARD G. HOWARD, Cincinnati, Ohio. Filed Sept. 16, 1920. Serial No. 410,606. 1 Claim. (Cl. 241-5.)



A garter comprising a button having a shank, a band of rubber material, having button-receiving perforations at its opposite ends, for connecting the ends of the band, the perforations being of reduced size to the size of the button shank inserted through the perforation, whereby the material must be expanded to enlarge the opening for admitting the button.

1,421,691. DOOR-HOLDING DEVICE. NORMAN B. HURD, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed June 22, 1921. Serial No. 479,455. 7 Claims. (Cl. 292-262.)

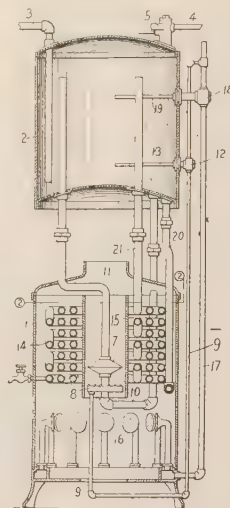


1. A door holder comprising, a bar adapted to be pivotally connected at one end to a door, said bar being rockable on its own longitudinal axis, an abutment having a passage therethrough for said bar and adapted to be carried by an overhead portion of a door casing, a latch device on said bar at one side of the longitudinal axis of the same and arranged to detachably engage a portion of said stationary abutment when said bar is in one position, a buffer device, and means for rocking said bar on its longitudinal axis to disengage said latch from said stationary abutment whereby said rod may be moved longitudinally through the abutment passage.

1,421,692. WATER HEATER. RUFUS J. HUTCHINS, Middletown, Ohio. Filed Nov. 10, 1921. Serial No. 514,421. 8 Claims. (Cl. 236-33.)

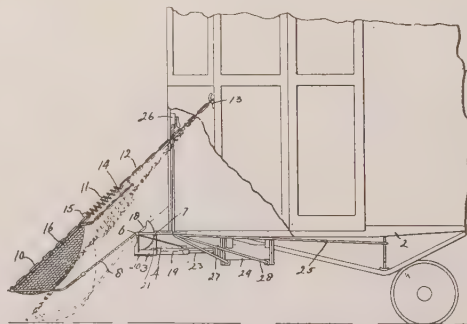
1. In a water heater, a tank connected with a source of water supply, a normally operative heating device, a circulation system connecting said heating device with said tank, a normally inoperative heating device, a separate

circulation system connecting the last mentioned heating device with said tank, and means for rendering said last



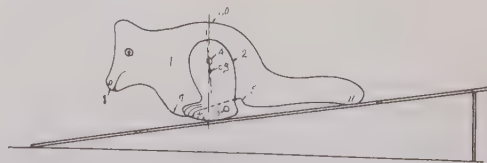
mentioned heating device operative when the water in said tank falls below a predetermined temperature.

1,421,693. VEHICLE FENDER. OMAR G. JONES, Philadelphia, Pa. Filed Oct. 9, 1920. Serial No. 415,849. 3 Claims. (Cl. 293-45.)



2. A fender consisting of brackets for attachment to a vehicle, a cross bar journaled in said brackets, a fender frame fixed thereto, chains attached to said frame and the vehicle, springs interposed in said chains to normally maintain the distance between the points of attachment of said chains less than the length of said chains, a catching member supported by said chains and fender frame and means for moving said fender frame to expand the spring and increase the distance between the points of attachment of the chains until equal to the full length of said chains.

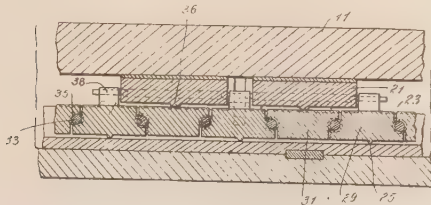
1,421,694. TOY. EDWARD FRANK JUERGENS, Middletown, Ohio, assignor to Joseph H. Wilson, Washington, D. C. Filed Jan. 7, 1921. Serial No. 435,689. 11 Claims. (Cl. 46-40.)



1. A toy adapted to walk down an incline comprising in combination a body portion, a leg device pivoted to said body at a point adjacent the center of gravity of said body

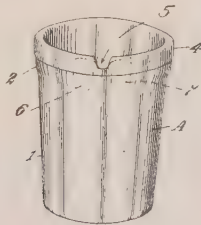
and having a curved foot surface outside the contour of the body, a fulcrum surface on the body adapted to alternate with the device in supporting the body, said device adapted to swing forwardly to a point where a portion of the curved foot surface is in advance of said fulcrum and means to limit the extent of the swinging movement of said device.

1,421,695. BEARING. ALBERT KINGSBURY, Pittsburgh, Pa. Filed Jan. 23, 1918. Serial No. 213,287. 23 Claims. (Cl. 64—25.)



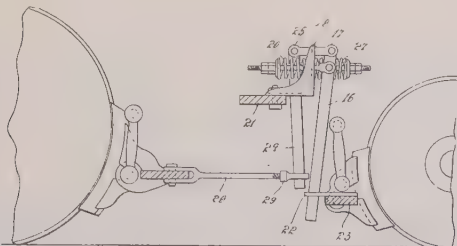
1. In a bearing, the combination with bearing means, of an equalizing system for distributing the pressure thereon comprising a plurality of interdependent members, and means for reducing the friction between said members and increasing the flexibility of the equalizing system.

1,421,696. PITCHER, TUMBLER, AND PACKAGE. PETER KUCERA, Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a Corporation of Delaware. Filed July 12, 1921. Serial No. 484,070. 17 Claims. (Cl. 215—1.)



1. An article of manufacture a packer's jar or the like comprising a jar with a substantially cylindrical mouth, a dam on the interior of the mouth and adjacent the edge of the jar with the longitudinal crest of the dam substantially a continuation of the inner wall of the jar, and a pouring notch adjacent said dam.

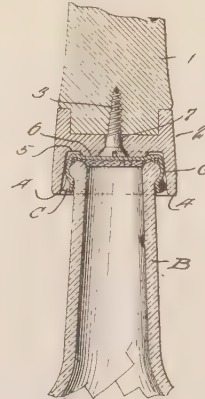
1,421,697. BRAKE RELEASE SPRING MECHANISM FOR TRAM AND THE LIKE CARS. HOWARD LEAH, Wellington, New Zealand. Filed July 20, 1921. Serial No. 486,140. 2 Claims. (Cl. 188—216.)



2. The combination with a car truck having movably mounted brake beams and a transverse member, of a bracket secured to said transverse member, a pair of horizontally arranged arms extending in opposite directions and formed integral with said bracket, a lever pivoted to and depending from the outer end of each arm, the lower free ends of said levers being operatively connected to said

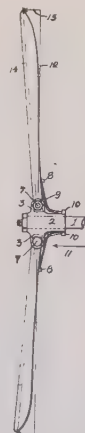
brake beams, a rod pivotally connected to each lever adjacent its pivoted connection to said arms, said rods adapted to extend through openings formed within said bracket in opposite directions, an adjustable washer arranged upon each rod and a coil spring encircling each rod and arranged between said bracket and said washer substantially as and for the purpose specified.

1,421,698. HAND CROWNER FOR APPLYING CROWN CAPS TO BOTTLES. HARRY J. LEBIERZ, Frederick, Md. Filed Mar. 11, 1921. Serial No. 451,525. 4 Claims. (Cl. 226—84.)



1. As a new article of manufacture, a hand crowner for capping bottles consisting of a handle member of suitable size for manual operation, a bottle capper head having a deep chambered portion of suitable size to permit the device to engage over a crown cap and constrict and lock same on the neck of the bottle to which it is applied, the chambered portion of the capper head having an annular recessed portion disposed to overlie the portion of the cap above the edge of the neck of the bottle, and the capper head having a central projecting portion of suitable size to press the central portion of the crown cap downwardly into the neck of the bottle, and a screw securing the bottle capper head to the handle, said screw when applied having its head aligned with the surface of the central projecting portion of the bottle capper head to operate as a part thereof in contact with the crown cap when applying the crown cap.

1,421,699. AEROPLANE PROPELLER. WILLIAM LINDSAY, Chicago, Ill. Filed June 19, 1918. Serial No. 240,745. 9 Claims. (Cl. 170—164.)



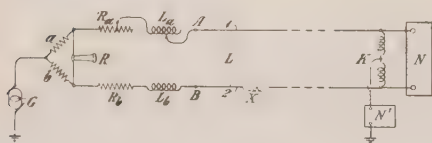
2. An aeroplane propeller having the longitudinal centre line of its vanes so disposed during flight that it lies in the

the width of the back only of the garment under the skirt portion and between the base of the trunk and the

1. A soluble composition for stiffening linen comprising of powdered gelatin in admixture with a desiccating agent.

1. The process for the preparation of a tanning material which comprises heating a hydroxyl derivative of a hydrocarbon, which derivative contains three or more carbon atoms and more than one hydroxyl group, an aromatic compound containing a sulfonic acid group and formaldehyde.

1,421,792. TESTING APPARATUS. RALPH G. McCURDY, Cresskill, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 19, 1920. Serial No. 404,583. 10 Claims. (Cl. 179—175.)



3. The method of determining the distance of an unbalance in a transmission circuit from a testing station, which consists in testing the circuit for an unbalancing impedance irregularity and calculating the distance of said irregularity from the testing station.

1,421,703. TREATMENT OF FIBROUS MATERIALS.
DANIEL MCGILL, London, England, assignor to Volos
Manufacture Limited, London, England. Filed Dec. 22,
1921. Serial No. 524,263. 5 Claims. (Cl. 134—12.)

4. A solution for the treatment of vegetable fibres comprising a mixture of the following in the approximate proportion specified:—

Glue.....	1 lb.
Potassium chloride from.....	$\frac{1}{2}$ to 1 oz.
Caustic soda.....	$\frac{1}{2}$ oz.
Black treacle.....	1 lb.
Graphite.....	1 to 2 oz.
Potassium alum.....	2 ozs.
dissolved in water.	

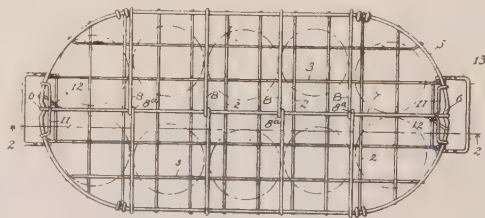
1,421,704. BATHING SUIT. GEORGE A. MATTERN, Berkeley, Calif. Filed Aug. 8, 1921. Serial No. 490,467. 2 Claims. (Cl. 2-144.)

2. A bathing suit of knitted goods comprising a trunk portion, a leg portion, and a skirt portion, in all of which the elastic phase of the goods is circumferential; and a strip of knitted goods inserted in and extending across



top of the leg portions, said strip having its elastic phase at right angles to the elastic phase of said portions.

1,421,705. HOLDER FOR JARS. THOMAS G. MELISH,
Cincinnati, Ohio. Filed May 3, 1919. Serial No.
294,440. 3 Claims. (Cl. 53-1.)



2. In a holder for jars the combination with a bottom frame and an upper frame collapsibly secured together and a wire secured in said upper frame at the ends thereof, of a wire at each end of said bottom frame and pivotally secured thereto, said wires being provided with hooks to engage the wire in said upper frame to lock the frames in open position, and spacers adjustably secured in said upper frame.

1,421,706. PROCESS OF EXCLUDING WATER FROM OIL AND GAS WELLS. RONALD VAN AUKEN MILLS, Sandy Spring, Md. Filed Oct. 15, 1918. Serial No. 258,260. 6 Claims. (Cl. 166—21.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

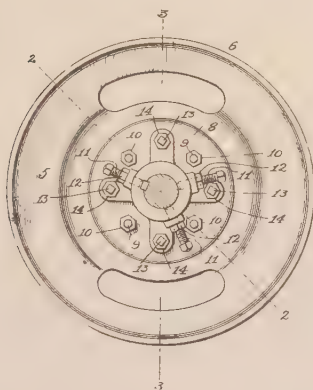
1. A process of the character described which consists in introducing into a well or other rock cavity rock forming material and reagents adapted to react chemically with the dissolved constituents of natural rock solutions to form a precipitate adapted to render said rock forming material substantially impervious.

1,421,707. PROCESS OF PREPARING A PERMANENT AND SPINNABLE SOLUTION IN THE COPRIC-AMMONIA PROCESS. PAUL HERMANN MINCK, Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 23, 1918. Serial No. 246,419. 6 Claims. (Cl. 23--24.)

1. The process of preparing spinnable cupric-ammonia-cellulose solutions consisting in the reduction of the cupric salts present in the solution and dehydration of the cellulose by means of sugars of the grape sugar group and the

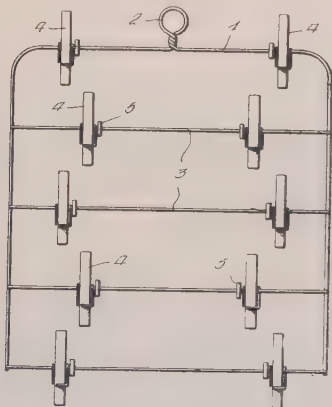
hydration of the cellulose by sugars of the cane sugar group, the amount of such sugars being not less than one-quarter of one per cent and not more than two and one-half per cent based on the weight of cellulose employed.

1,421,708. TIGHT BAND PULLEY. HENRY W. MORGAN and EDWARD P. HOLDER, Greenville, S. C. Filed Aug. 22, 1921. Serial No. 494,376. 1 Claim. (Cl. 64—17.)



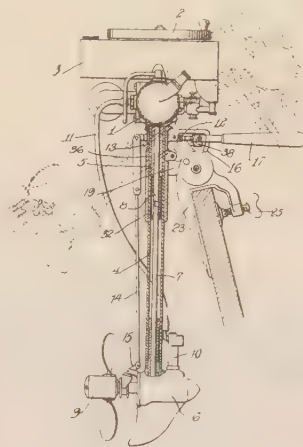
In combination, a pulley body having a central hole and a series of bolt-holes around the same, a pulley-hub extending through said hole and provided with a radial flange overlapping the pulley body and provided with bolt-holes coinciding with the bolt-holes in the pulley body, clamp-bolts extending through said coinciding holes, and a plurality of set-screws tapped through said flange and bearing upon the adjacent face of the pulley body, for the purpose set forth.

1,421,709. CLOTHES HANGER. FRANK C. NELSON, Clarksburg, W. Va. Filed Aug. 25, 1921. Serial No. 495,379. 1 Claim. (Cl. 211—13.)



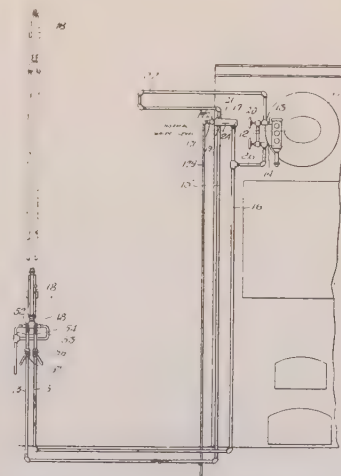
A clothes hanger comprising a frame having sides and head portions, attaching means on said head portion, a plurality of relatively parallel rods disposed transversely of said frame and secured at their opposite ends to adjacent portions of the frame sides, a plurality of relatively staggered pairs of stops fixedly arranged upon said rods and head portion spaced inwardly from the sides thereof, and clamps pivotally and slidably arranged upon those portions of the rods and head portion capable of having independent lateral adjustment between their respective stops and the frame sides.

1,421,710. MOUNTING FOR OUTBOARD MOTORS. RICHARD B. OWEN, Washington, D. C. Filed Feb. 10, 1916. Serial No. 77,505. 17 Claims. (Cl. 115—18.)



1. An outboard motor propulsion unit consisting of an engine, a propeller, means for pivotally and slidably supporting said engine upon a support for permitting the engine to be swung from a position outboard to a position inboard and moved longitudinally of said support.

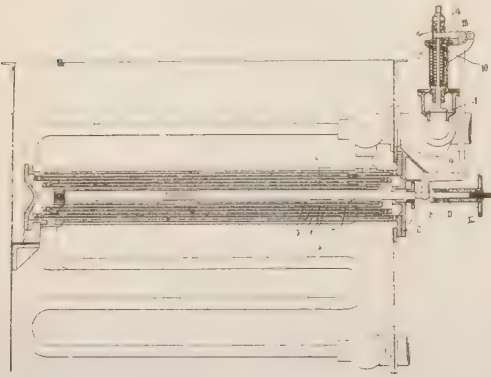
1,421,711. DISTANT BOILER-WATER-LEVEL INDICATOR. HARRY S. PARKS, Philadelphia, Pa., assignor to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed Apr. 12, 1917. Serial No. 161,545. 19 Claims. (Cl. 73—54.)



1. A means for indicating the level of water in a steam boiler comprising two rising pipe lines adjacent to one another and exposed to substantially the same external temperature, lower than the boiling point of water, one of said pipe lines being connected with the boiler below the normal water level therein, and the other rising above the said normal level and adapted to contain a high water column of fixed height, a condensing pipe leading from the steam space of the boiler and arranged mainly above the head of said high column pipe line with its discharge outlet arranged to drip into said pipe line, whereby the latter is kept full to overflowing, a separate connection below the outlet of said condensing pipe arranged to conduct

away such overflow, and a differential indicator connected to the two pipe lines and adapted to show the difference between the momentary boiler water level and the height of said high water column.

1,421,712. STEAM SUPERHEATER. CHARLES ALGERNON PARSONS and STANLEY SMITH COOK, Wallsend-on-Tyne, England; said Cook assignor to said Parsons. Original application filed Apr. 27, 1917, Serial No. 165,048. Divided and this application filed June 26, 1918. Serial No. 242,105. 5 Claims. (Cl. 122—479.)



2. In combination with a steam superheater for steam boilers, a relief valve controlling the exit of steam from the superheater, a thermostat associated with said superheater, and means for controlling said valve from said thermostat, whereby the valve will blow off when the temperature rises within the superheater, consequent upon the demand for steam being reduced or ceasing.

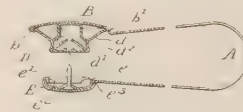
1,421,713. SELF-OILING ROTARY CUTTER. CHARLES J. PETRASEK, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,108. 4 Claims. (Cl. 10—126.)



4. The herein described oil receptacle comprising a hollow body, a plug for the delivery end of the body, a bolt projecting inward through said plug, a valve connected to the bolt and co-operating with the outer face of the plug, a finger piece projecting laterally from the valve, a pair of spaced plugs carried by the opposite end of the body, a bolt projecting through the inner one of these two

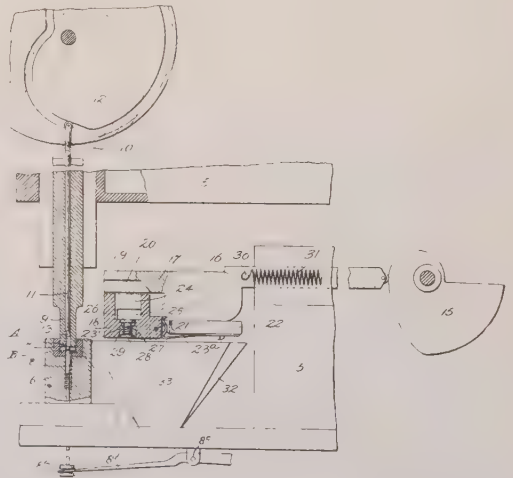
valves, a heavy spring co-operating between the latter mentioned bolt and its plug serving to project the bolt outward, a tie member extending between the two plugs, a valve co-operating with the inner face of the outer plug of the pair of plugs, and a light spring located between the second mentioned bolt and the latter mentioned valve, substantially as set forth.

1,421,714. SEALING DEVICE. VOJTĚCH PUC, Prague-Vinohrady, Bohemia. Filed Aug. 1, 1919. Serial No. 314,703. 5 Claims. (Cl. 292—318.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A sealing device, comprising a metal strip formed with enlarged ends which are permanently connected to locking members, one member of said locking device comprising a frame, the peripheral portion of which is embraced by one of said enlarged ends and which contains locking springs, and the other member having the edge of its frame embraced by a peripheral portion of the other enlarged end of the strip, and said last mentioned locking member having a shank which is adapted to enter said socket member.

1,421,715. MECHANISM FOR SORTING THE SOCKET MEMBERS OF SNAP FASTENERS. VOJTĚCH PUC, Prague-Vinohrady, Bohemia. Filed Jan. 9, 1920. Serial No. 350,361. 12 Claims. (Cl. 79—3.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

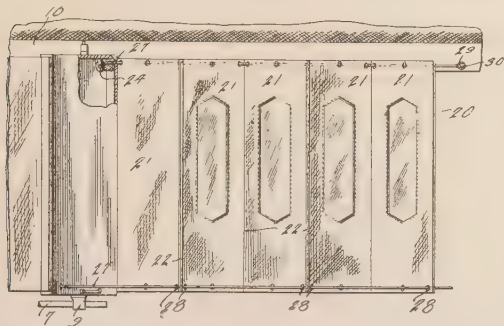


1. A machine for sorting good and defective articles comprising a sorting pin for detachably locking to some of the articles, means for bringing the sorting pin into engagement with articles to be sorted, and means for stripping articles from the sorting pin.

1,421,716. AUTOMOBILE STORM CURTAIN. ARTHUR F. RANDALL, Shreveport, La. Filed Jan. 26, 1921. Serial No. 440,022. 1 Claim. (Cl. 296—141.)

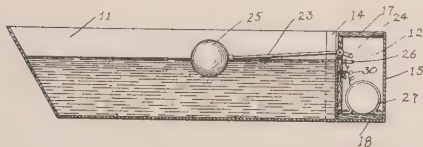
An automobile storm curtain comprising a bracket to be mounted on an automobile, a rectangular casing carried by the bracket and capable of being arranged in a vertical

position at one side of the automobile to constitute a part of the curtain, a curtain section carried by the casing, spring-rotated drums journaled in the casing, and flexible



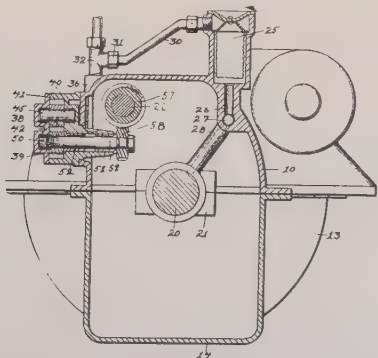
elements having slidable connection with the longitudinal edges of the curtain section and adapted to be wound about the drums to fold the curtain against the casing.

1,421,717. PAN WITH OVERFLOW-ALARM DEVICE. ANTHONY RENDA, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,276. 3 Claims. (Cl. 177—311.)



2. In combination with a drip pan of a receptacle disposed at one end of the pan, and a removable alarm device comprising in combination an adjustable non-metallic frame disposed within said receptacle, said frame being provided with a top member adapted to completely close said receptacle, a pair of metallic terminals secured in and extending within said frame, a lever pivotally connected to said frame, said lever being provided with a float secured at one of its ends and a metallic extension adapted to contact with said metallic terminals, when the float is in overflow position, a bell and batteries supported by said frame, and means for connecting said bell, batteries and terminals.

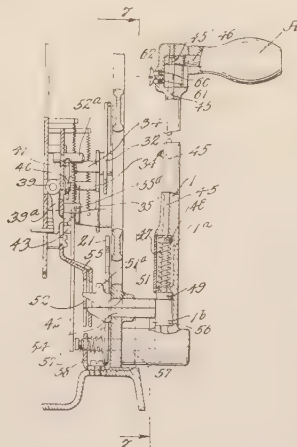
1,421,718. OIL PUMP. HARRY E. RHODES, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 16, 1918. Serial No. 254,226. 11 Claims. (Cl. 184—6.)



6. In combination with one of the operating shafts of an automobile engine and a casing therefor, a pump secured to said casing provided with a sleeve projecting into said casing, means in said sleeve actuated by said shaft

for operating the pump, and a reservoir integrally formed with the casing, the said pump forcing oil to the reservoir and also from the sleeve to the casing.

1,421,719. CONTROL MECHANISM FOR CALCULATING MACHINES. JOHN F. ROBB, Cleveland, Ohio. Filed June 29, 1916, Serial No. 106,657. Renewed Nov. 6, 1919. Serial No. 336,235. 38 Claims. (Cl. 235—60.)



1. In an accounting machine, the combination, with accounting mechanism for taking totals, manipulative devices for predetermining the action thereof and handle means for effecting a normal operation of said mechanism for regular transactions of the machine, of means operable by initial movement of the handle means in the direction of its movement for effecting a normal operation of the machine whereby to compel total taking operation of the machine.

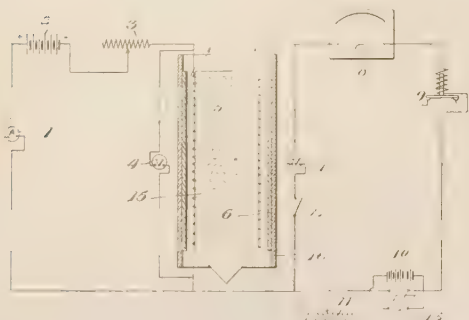
4. In an accounting machine, the combination, with accounting mechanism, manipulative means for predetermining the action of said accounting mechanism, handle means for effecting a normal operation of said mechanism for regular transactions of the machine including a crank, a handle for said crank, a connection intermediate the handle and crank for holding the handle rigid against movement relative to the crank and permitting rotative relative movement by adjustment of the handle, and means adapted to be operated as an incident to the rotative movement of the handle on the crank for compelling an abnormal operation of the accounting mechanism for an irregular transaction of the machine.

5. In an adding and listing machine, the combination of accumulating and listing mechanism, manipulative means for setting the said accumulating and listing mechanisms for ordinary accumulating and listing operations, main operating means for said mechanisms including a main actuator, a handle for said actuator, and means operable from said handle for causing sub-totalling action of the accumulating and listing mechanism.

6. In an adding and listing machine, the combination of accumulating and listing mechanism, manipulative means adapted to be set to control the said accumulating and listing mechanisms for ordinary accumulating and listing operations, main operating means for said mechanisms including a main actuator, a handle for said actuator, and means operable from said handle previous to the movement of the main actuator for normalizing the manipulative means aforesaid.

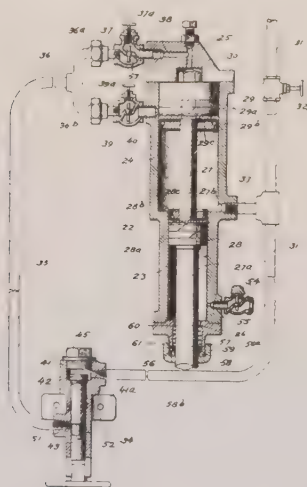
16. In a listing machine, the combination of listing mechanism, manipulative means adapted to be set to control the said listing mechanism for ordinary listing operations, main operating means for said mechanism including a main actuator, a handle to be grasped for moving said actuator, and means operable from said handle previous to the movement of the main actuator by the handle for effecting normalization of the manipulative means aforesaid.

1,421,720. METHOD OF AND APPARATUS FOR DETECTING THE PRESENCE OF ONE GAS IN ANOTHER. CLAUDIUS H. M. ROBERTS, Washington, D. C. Filed June 3, 1920. Serial No. 386,392. 18 Claims. (Cl. 185-183.)



1. The herein described method of detecting the presence of one gas in another: consisting in passing the gaseous mixture to be tested between opposed spaced electrodes connected with a suitable source of low potential direct current electricity; the amount of current passing across the gap varying with the amount of the gas to be detected existing in the mixture being tested, and noting the changes in the current.

1,421,721. DOOR-OPERATING APPLIANCE. JAY G. ROBINSON, Chicago, Ill. Filed Jan. 25, 1915. Serial No. 4,358. 2 Claims. (Cl. 121-44.)



1. In a fluid-actuated operating mechanism, a cylinder, a piston in said cylinder, a piston rod upon which said piston is mounted, a metallic packing in the end of said cylinder around said piston rod, fluid pressure means for moving said piston towards said metallic packing, means to produce a reverse stroke, and an inlet valve to permit atmospheric air to flow into the chamber on the side of said piston adjacent said packing during said reverse stroke, said packing permitting the escape of air there-through under a relatively high pressure, said cylinder being constructed to prevent the escape of air from the chamber on the side of said piston adjacent said packing except through said packing.

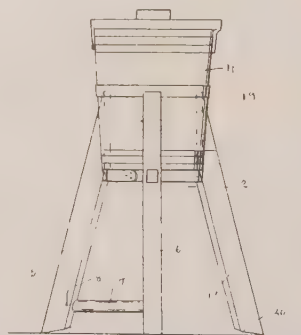
1,421,722. TANNING. ADOLF RÖMER, Stuttgart, and LOUIS BLANGEY, Mannheim, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Original application filed Sept. 2, 1916, Serial No. 118,286. Divided and this application filed Apr. 27, 1917. Serial No. 165,000. 5 Claims. (Cl. 149-5.)

1. The process of tanning which comprises treating hides with a water-soluble aromatic compound of crystalline structure consisting of more than one aromatic nucleus connected to at least one carbon atom which is itself joined to at least one alkyl group and containing a mineral acid group, said compound being capable of precipitating glue from solutions thereof, substantially of the character described.

1,421,723. PROCESS FOR TANNING WITH ALUMINIUM SALTS. OTTO RÖHM, Darmstadt, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 6, 1917. Serial No. 205,880. 11 Claims. (Cl. 149-5.)

1. The process of tawing which comprises immersing hides or skins in a liquor containing 8 kg. potassium alum, $2\frac{1}{2}$ kg. sodium chloride, 500 g. sodium formate, 10 kg. talcum, and 50 l. of water for each 100 kg. of hides or skins.

1,421,724. SUPPORT FOR ICE-CREAM FREEZERS. FRANK D. RUGG, Greenfield, Mass. Filed Jan. 15, 1920. Serial No. 351,692. 2 Claims. (Cl. 248-41.)

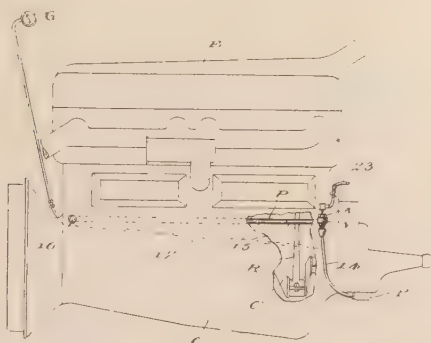


1. A pail or freezer support consisting of a pair of legs, each of the legs having a beveled pail engaging face on its upper end, a rung connecting the lower end portions of the legs to each other, a band adapted to form a seat for the pail, and having pivotal connection with the upper end portions of the legs, and a third leg pivotally connected with the band and provided with a pail engaging face on its upper end, the third leg being detachable and the band being capable of swinging into longitudinal relation with the legs to permit the support to be folded.

1,421,725. ATTACHMENT PLUG FOR OILING SYSTEMS FOR INTERNAL-COMBUSTION ENGINES. RANDALL WILLIAM SAUNDERS, Brooklyn, N. Y. Filed Oct. 8, 1921. Serial No. 506,418. 6 Claims. (Cl. 184-11.)

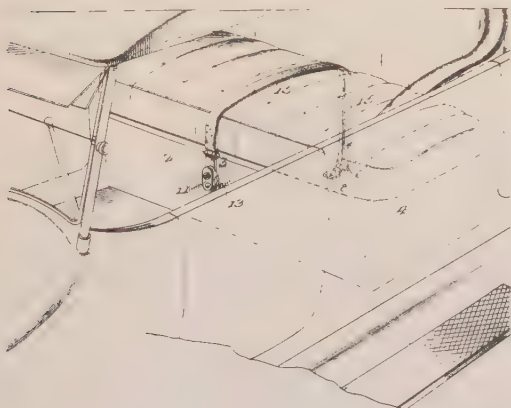
5. In an oiling system of the character described, including a pipe or conduit having an opening with a removable closure therefor, in combination, a plug adapted to be

substituted for the removable closure of the pipe, said plug having a nipple extension adapted to permit the connection



of a source of compressed air with the pipe for the purpose described.

- 1,421,726. SAFETY STEEL STRAP CUSHION LOCK. RANDALL WILLIAM SAUNDERS, Brooklyn, N. Y. Filed Dec. 5, 1921. Serial No. 520,026. 5 Claims. (Cl. 70-27.)



1. As an article of manufacture, a longitudinal substantially flat metal band, a hinge attached to the band at one end thereof, a lock element attached to the band at its other end and adapted to engage a cooperating lock element.

- 1,421,727. DIRECTION INDICATOR. WILLIAM J. SCHAFER, Santa Cruz, Calif. Filed Mar. 21, 1921. Serial No. 454,164. 1 Claim. (Cl. 116-50.)

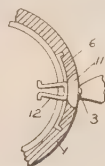


In means for actuating an indicating device of the character described, a tubular channel, a cylindrical member adapted to be reciprocated in said channel, an operative connection between said member and said indicating device and a plurality of clips adjustably fastened to said channel, each adapted to lock said cylindrical member.

- 1,421,728. METHOD OF MAKING AN INDESTRUCTIBLE BLACK STAMP DYE FOR DOCUMENTS. JOHANNES SCHIFFMANN, Ballenstedt, Germany. Filed Aug. 8, 1921. Serial No. 490,821. 1 Claim. (Cl. 134-34.)

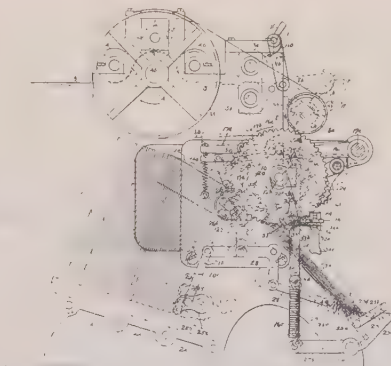
A method of making an indestructible black stamp-dye for documents, consisting in mixing a pigment that is insoluble in water, namely aniline-black that is soluble in alcohol, with gallotannate of iron, dissolving said mixture while hot in acetone, and adding lamp-black to said mixture, substantially as and for the purpose set forth.

- 1,421,729. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,188. 3 Claims. (Cl. 88-42.)



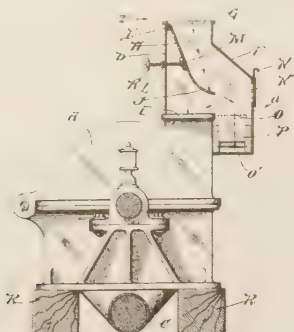
1. In a device of the character described, the combination with a composition rim member having a semi-circular slot milled therethrough, of a fitting having a plate portion conforming in shape to the shape of the slot, and having projecting terminal portions embedded in the material of the rim for securing the parts together.

- 1,421,730. TOILET-PAPER WINDER. LINO SCUSA, Phoenix, N. Y. Filed Nov. 6, 1920. Serial No. 422,274. 14 Claims. (Cl. 216-9.)



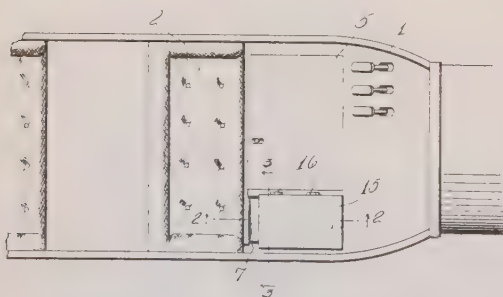
1. In a toilet paper winder, the combination with the paper feeding and slitting parts, of a reel disposed in the path and rotatable in the direction of the travel of the paper, a plurality of mandrels journaled in said reel adapted to be successively moved towards the position for winding the slitted paper by the rotation of said reel, means for indexing said mandrels, means for driving the mandrels for winding the strips of paper, means for winding hollow cores upon said mandrels before they are moved to the paper winding position, and means carried by said reel for effecting the starting of the core winding mechanism.

1,421,731. GRINDER AND SHREDDER. HARRY J. SHELTON, St. Louis, Mo. Filed May 12, 1920. Serial No. 380,894. Renewed Apr. 24, 1922. Serial No. 556,360. 2 Claims. (Cl. 83—11.)



1. A suction fan in combination with a grinding and shredding machine having an inlet opening upwardly, a separator mounted on said inlet comprising a casing having vertical rear and side walls, the lower end of said rear wall and the parts of the lower end of said walls adjacent thereto resting on the upper edges of said inlet and said side walls extending downwardly in front of and below said inlet to form a pocket, a front wall following the contour of the front edges of said side walls, and an adjustable deflector pivotally attached to said rear wall near the upper end thereof and extending downwardly toward and terminating above said inlet.

1,421,732. TOOL BOX. ALBERT BRINTON SLACK, San Antonio, Tex. Filed Aug. 12, 1921. Serial No. 491,794. 4 Claims. (Cl. 296—37.)

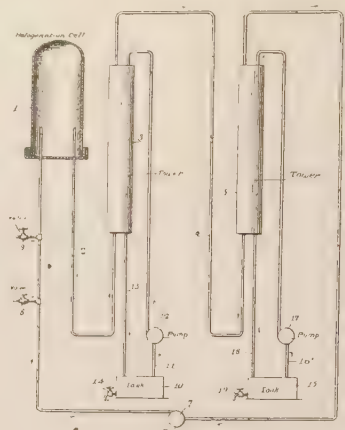


1. In combination with a motor driven vehicle having a portion of the floor board thereof removed, a tool box received in said removed portion having one end extended under the lower portion of the operator's seat support, means on one side of the box engageable with a portion of the vehicle body, other means on the opposite side of said box for receiving and supporting the adjacent end of the floor board, and a cover for the open top of said box.

1,421,733. PREPARATION OF HALOGEN COMPOUNDS. WALTER O. SNELLING, Allentown, Pa. Filed June 4, 1920. Serial No. 386,627. 4 Claims. (Cl. 260—166.)

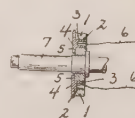
3. In the preparation of hydrochloric acid, the process which comprises chlorinating methane with the production

of methyl chloride and hydrochloric acid, contacting the resulting gaseous mixture with a solvent for methyl chlo-



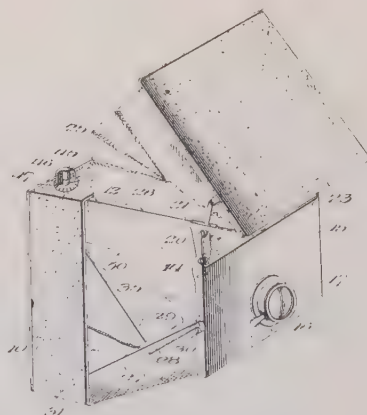
ride, and thereafter contacting the residual gaseous product with a solvent for hydrochloric acid gas.

1,421,734. COMMUTATOR. WILLIAM SPARKS, Jackson, Mich., assignor to Sparks-Withington Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 16, 1920. Serial No. 396,801. 3 Claims. (Cl. 171—320.)



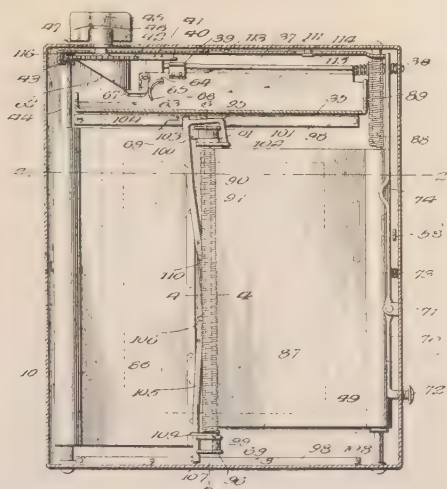
2. A commutator comprising an insulating disk having an opening therethrough, and a contact member having a web portion in substantial contact with one face of the disk and a tubular shank centrally engaged with said head and extended through the opening in the disk, and secured to the disk.

1,421,735. REFLEX CAMERA. CHARLES SPIRO, New York, N. Y. Filed Dec. 28, 1920. Serial No. 433,597. 28 Claims. (Cl. 95—42.)



1. In a camera, a case, a finder plate pivoted thereto, a lens plate pivotally supported from the finder plate, and a cover plate connected to the lens plate to swing the latter toward and from the finder plate.

1,421,786. CURTAIN CAMERA SHUTTER. CHARLES SPIRO, New York, N. Y. Filed Dec. 28, 1920, Serial No. 433,598. Renewed Apr. 1, 1922. Serial No. 548,794. 22 Claims. (Cl. 95—57.)

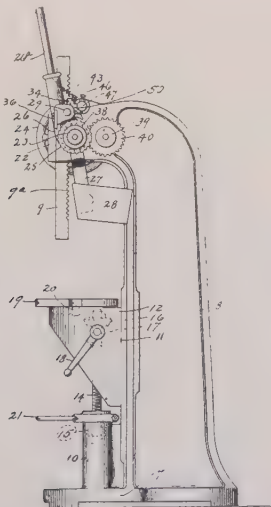


1. In a curtain shutter, separable curtains, means for moving said curtains in unison, means thereon for locking said curtains in contact, relatively fixed means for releasing said curtains for separation in their travel in one direction, and means upon one curtain for drawing said curtains into contact in their opposite travel.

1,421,737. ART OF PRODUCING CEREAL BEVERAGES. MAX STAHL, Chicago, Ill., assignor to The Wahl-Henius Research Laboratory, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1920. Serial No. 348,780. 5 Claims. (Cl. 99—11.)

1. In the process of preparing low alcoholic cereal beverages, preparing a brew by subjecting a wort to controlled fermentation and checking the fermentation when the alcohol content reaches 0.3% to 0.7% and adding thereto dealcoholized beer.

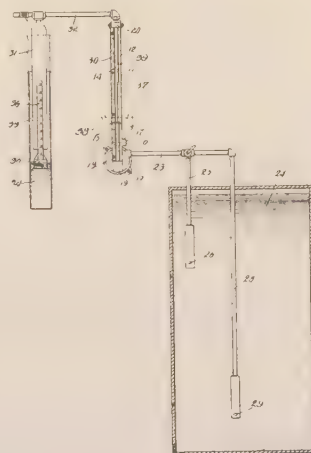
1,421,738. ARBOR PRESS. JOSEPH H. STALEY, Columbus, Ind. Filed Mar. 1, 1921. Serial No. 448,877. 17 Claims. (Cl. 29—85.)



16. In an arbor press, a frame, a reciprocating ram supported by the frame, a lever, gear means for actuating

the ram at different powers, and selective means for transmitting power from the lever to one of said ram-actuating means.

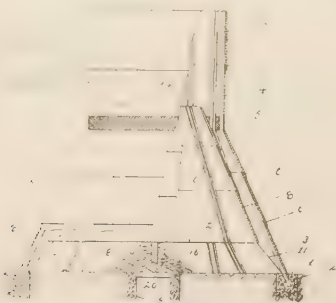
1,421,739. MANOMETER. CECIL W. STANCLIFFE, Toronto, Canada, assignor to Pneumercator Company, New York, N. Y., a Corporation of Maine. Filed Sept. 26, 1919. Serial No. 326,571. 12 Claims. (Cl. 73—31.)



1. The combination with a manometer, of a multiplying vernier comprising a container for liquid, and a conduit arranged to descend into the liquid in said container and having an open orifice adapted to be maintained beneath the surface of said liquid, said conduit containing air and being connected to the manometer in such manner that its air contents exert back pressure in the manometer, while exerting pressure on the liquid.

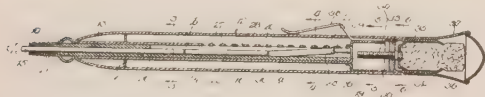
1,421,740. SWITCH MECHANISM. HARRY M. STEVENS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 21, 1919. Serial No. 272,347. 12 Claims. (Cl. 200—106.)

1,421,741. REFUSE BURNER. JAMES T. STODDARD, Portland, Oreg. Filed Sept. 20, 1917. Serial No. 192,276. 5 Claims. (Cl. 110—18.)



1. A refuse burner comprising a hearth a shell having an open top and a flared base surmounting and surrounding the hearth and in closed juxtaposition thereto, in combination with a foraminous intermediate zone in the shell.

1,421,742. MAGAZINE PENCIL. JOHN STRAKA, Chicago, Ill., assignor of one-half to Joseph R. Lewis, Chicago, Ill. Filed Oct. 16, 1920. Serial No. 417,432. 8 Claims. (Cl. 120—17.)



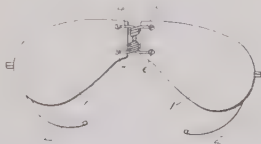
6. A pencil comprising a casing, a stationary, transversely slotted tube therein, the ends of the slots being closed and one of the ends of the slots being inclined, a lengthwise slotted reciprocating plunger-actuating tube slidably mounted in said stationary tube, and a lead feeding plunger slidably mounted in said reciprocating tube and having a laterally extending depressible part projecting through the slot of said reciprocating tube and arranged to engage in the slots of said stationary tube.

1,421,743. PROCESS FOR THE MANUFACTURE OF PRODUCTS FROM ACETYLENE. BERNHARD CONRAD STIER and WALTER GROB, Aachen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Nov. 11, 1916. Serial No. 130,928. 14 Claims. (Cl. 260—53.)

1. A process for the manufacture of products from acetylene which comprises passing acetylene in conjunction with another reaction gas over a hydrated metal compound at a temperature of 250° to 500° C.

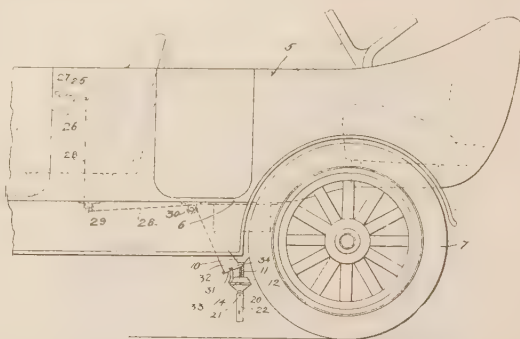
5. A catalyst for effecting reactions with acetylene containing an iron compound and hydrated alumina.

1,421,744. EYE PROTECTOR. HARRY H. STYLL, Southbridge, Mass. Original application filed Dec. 9, 1919. Serial No. 343,535. Divided and this application filed Dec. 3, 1920. Serial No. 428,058. 6 Claims. (Cl. 88—43.)



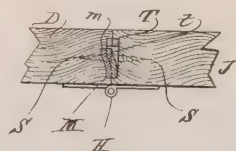
1. A device of the character described comprising a pair of members centrally rigidly united and having their ends extending outwardly, the two ends of one member being secured to one lens of a mounting and the two ends of the other being secured to the other lens.

1,421,745. SAND-DELIVERY DEVICE FOR VEHICLES. JASON C. TAYLOR, Los Angeles, Calif. Filed Dec. 18, 1920. Serial No. 431,551. 3 Claims. (Cl. 291—25.)



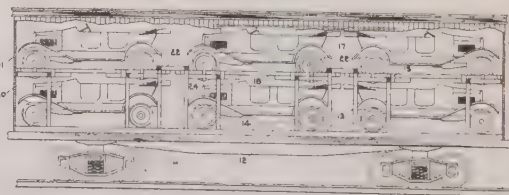
1. A device of the class described, comprising a sand hopper mounted on a vehicle and adapted to receive a frictional material, a tube extending from the bottom of said hopper, a casing surrounding said tube, a valve mounted in said casing adapted to open and close the end of said tube and spread said frictional material when flowing therethrough, a delivery tube mounted for universal movement at the bottom of said casing, means for resiliently supporting said second mentioned tube, and means under the control of an occupant of said vehicle for operating said valve.

1,421,746. DOOR-SECURING DEVICE. HAROLD THORNE, New York, N. Y. Filed June 23, 1921. Serial No. 479,714. 3 Claims. (Cl. 16—137.)



3. As articles of manufacture for use supplemental to a hinge, interlocking pairs of door and jamb plates, comprising a mortise plate and a tenon plate, each formed with an interengaging depressed portion open at one side and formed with a flat face to form an abutment.

1,421,747. AUTOMOBILE DECKING. FRED H. THOMPSON and EDWARD HOLMES, Toledo, Ohio, assignors to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 3, 1921. Serial No. 442,105. 11 Claims. (Cl. 105—368.)

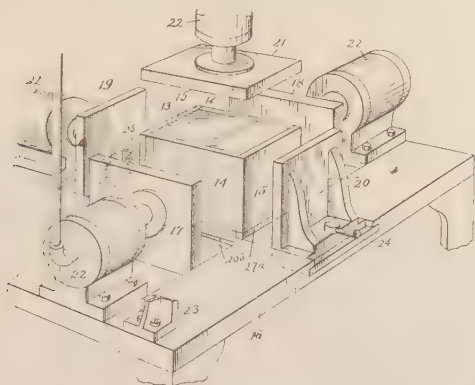


1. In an apparatus of the class described, a wheel support comprising a pair of parallel rails spaced the width of a wheel, a U shaped strap hung upon and between said rails so as to form a wheel stirrup, and means mounted upon and between said rails at either side of the stirrup for engagement with the periphery of the wheel.

1,421,748. METHOD OF MAKING STORAGE-BATTERY CONTAINERS. THEODORE A. WILLARD, Cleveland Heights, Ohio. Filed Feb. 11, 1921. Serial No. 444,249. 10 Claims. (Cl. 18—56.)

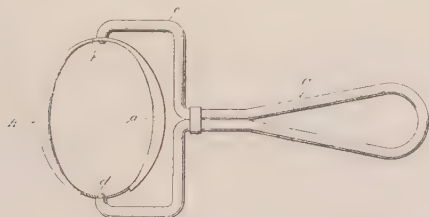
1. The method of forming a multi-compartment hard rubber storage battery container which comprises placing

uncured rubber in sheet form between a series of cores, placing uncured rubber in sheet form about the sides and over the bottom ends of the cores and the intervening



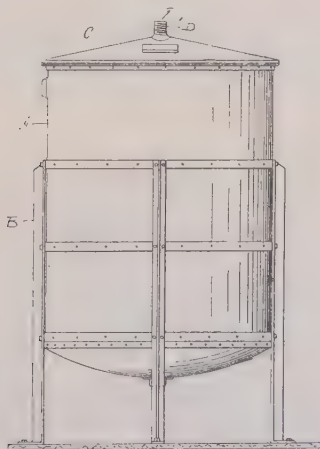
layers of rubber so as to form a core and rubber assembly, applying pressure laterally and vertically to the sides and top and bottom of the assembly, and vulcanizing the container after the compression step.

1,421,749. CAKE OR BISCUIT CUTTER. BENJAMIN S. WILLIAMS, Nashville, Tenn. Filed Dec. 6, 1921. Serial No. 520,349. 5 Claims. (Cl. 107-51.)



1. A cutter of the type described comprising a body of elliptical tubing having flaring outer edges, and a carrier comprising a handle and bearings engaging the transverse axis of said body.

1,421,750. PROCESS OF TREATING VEGETABLES IN PREPARATION FOR CANNING. WALTER WILLIAM WILLISON, Hastings, N. Y., assignor to Thermokept Products Corporation, New York, N. Y., a Corporation of Maine. Filed Aug. 30, 1920. Serial No. 406,932. 9 Claims. (Cl. 146-14.)



7. The herein described steps of washing and blanching vegetables which consists in subjecting said vegetables to warm water under a vacuum, and then suddenly breaking said vacuum.

1,421,751. COMPOSITION OF MATTER FOR PAVING BLOCKS, BUILDING BLOCKS, AND THE LIKE. GEORGE S. WRIGHT and CHARLES WESLEY WRIGHT, Philadelphia, Pa. Filed Aug. 6, 1921. Serial No. 490,313. 2 Claims. (Cl. 106-24.)

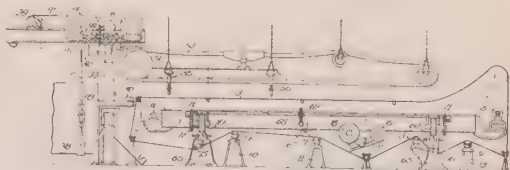
1. The herein described composition of matter for blocks and the like composed of fire clay, lime water, salt, asbestos cement, sand and graphite, commingled in substantially the proportions described.

1,421,752. PAPER-MAKING MACHINE. ALONZO ALDRICH and ALBERT L. LARSON, Beloit, Wis.; said Larson assignor to said Aldrich. Filed May 14, 1921. Serial No. 469,552. 47 Claims. (Cl. 92-44.)



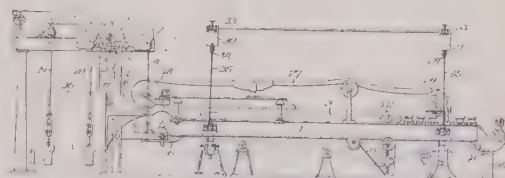
1. A Fourdrinier machine having a table adjustable laterally as an entity, power means attached to the table for moving the table laterally as a unit, and means for supporting the table in a laterally adjusted position.

1,421,753. PAPER-MAKING MACHINE. ALONZO ALDRICH, Beloit, Wis. Filed July 5, 1921. Serial No. 482,441. 5 Claims. (Cl. 92-45.)



1. The combination of a Fourdrinier table made in sections and having its feed end made vertically and horizontally adjustable, and having its other end made stationary and pivotally connected with the feed end, means for elevating the first mentioned section of the table and separate means for elevating the other end thereof, wheels on both parts or sections of the table, a power generator with power transmitting connection for driving said wheels, and tracks therefor, on which said wheels may travel.

1,421,754. PAPER-MAKING MACHINE. ALONZO ALDRICH, Beloit, Wis. Filed July 16, 1921. Serial No. 485,180. 17 Claims. (Cl. 92-44.)

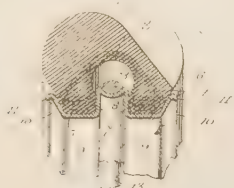


1. In a machine of the class specified, the combination of a laterally movable table, and overhead means for lifting the front edge of the table and moving the table laterally.

1,421,755. CUSHION TIRE AND RIM THEREFOR. ULRICH ANDERSON, Wausau, Wis. Filed Feb. 25, 1920. Serial No. 361,086. 5 Claims. (Cl. 152-1.)

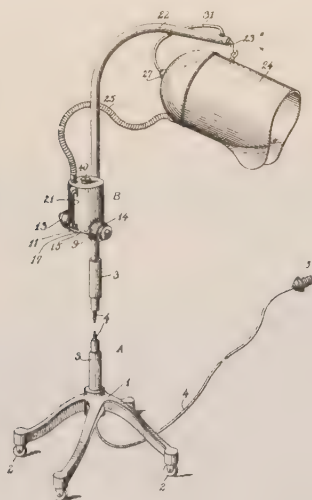
1. In combination with a tire having two inner circumferentially extending flanges; a transversely split rim hav-

ing a centrally disposed double walled flange and an up-standing marginal flange at each side thereof, said flanges



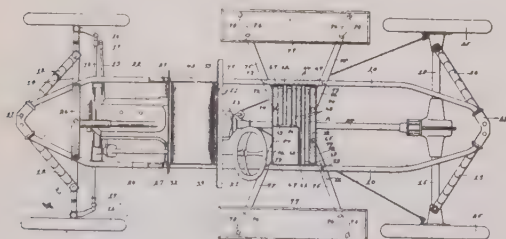
engaging and holding the flanges of the tire; and means for preventing expansion of the rim.

1,421,756. MASSAGE APPARATUS. CHARLES ARNAO, Brooklyn, N. Y. Filed Nov. 4, 1921. Serial No. 512,715. 10 Claims. (Cl. 174—177.)



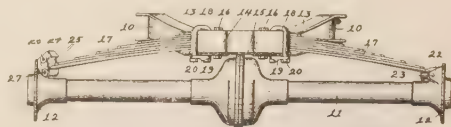
1. In a massage steamer, an open-ended hood for embracing the face; a steam supply connected with the interior of said hood; and a source of radiant energy within said hood for revitalizing the steam in its direct application to the face.

1,421,757. MOTOR VEHICLE. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 12, 1917. Serial No. 190,966. 11 Claims. (Cl. 280—106.)



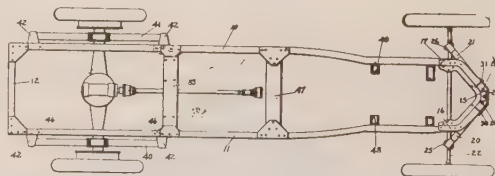
1. In a motor vehicle, the combination of a frame comprising a pair of longitudinally extending side bars; and a rigid box-like receptacle secured at its ends to said side bars intermediate the ends thereof, and forming a brace for the middle part of said frame.

1,421,758. SPRING SUSPENSION FOR VEHICLES. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,052. 26 Claims. (Cl. 267—54.)



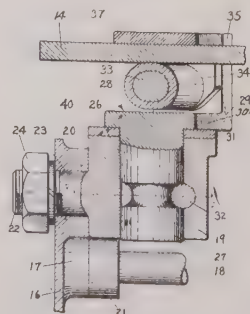
2. In a vehicle, the combination of a frame; an axle; a cantilever spring pivotally connected directly to the axle adjacent one end thereof; a link pivotally supported adjacent the other end of said axle; and a cantilever spring pivotally connected to the free end of said link, both of said cantilever springs being rigidly connected to said frame out of alignment with each other and near the longitudinal center line of the frame.

1,421,759. SPRING SUSPENSION. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 6, 1919. Serial No. 269,806. 22 Claims. (Cl. 267—36.)



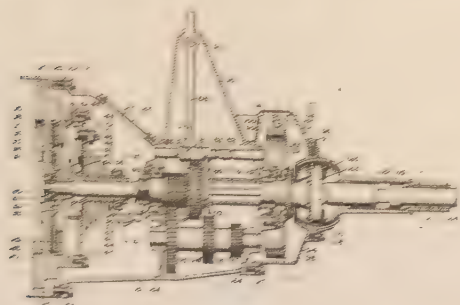
4. In a vehicle, the combination of a frame, front and rear axles, a pair of single arm cantilever springs connected to said front axle and converging forwardly to said frame, means for connecting said springs to said frame, a second pair of springs connected to the rear axle of the vehicle and extending longitudinally of the vehicle frame and means to connect said last mentioned springs and frame.

1,421,760. SPRING SUSPENSION FOR VEHICLES. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 13, 1919. Serial No. 270,885. 26 Claims. (Cl. 267—56.)



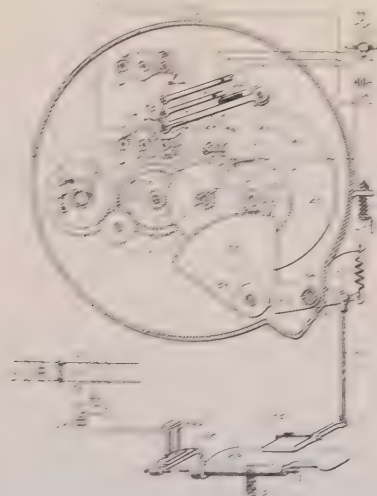
1. In a vehicle, the combination of a frame, an axle, spring supporting means mounted on said axle for rotation on a vertical axis, and a spring slidably supported by said supporting means and connected to said frame.

- 1,421,761. POWER-TRANSMITTING MECHANISM. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed July 19, 1917. Serial No. 181,558. Renewed Feb. 6, 1922. Serial No. 534,804. 2 Claims. (Cl. 74-56.)



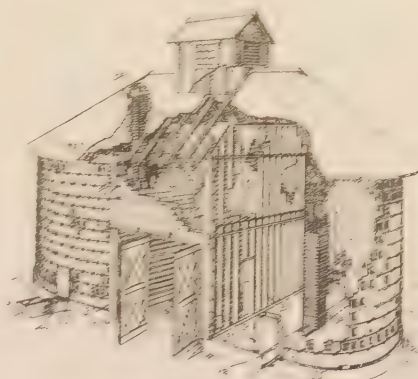
1. In a device of the class described, the combination of a driven member; a shaft; a clutch connecting said driven member and said shaft; transmission mechanism driven by said shaft; a propeller shaft; a universal joint connected with said transmission mechanism and connected with said propeller shaft by a slip joint; a casing housing said transmission mechanism and secured to the rear end of the engine casing; a transmission brake; a casing housing said transmission brake and secured to the rear end of said transmission casing; a casing for said propeller shaft provided with a ball shaped housing at its forward end, said transmission brake casing being provided with a socket adapted to receive said ball shaped housing; and a concave ring secured to said transmission brake housing and adapted to engage said ball shaped housing, whereby the casing for the propeller shaft has a universal connection with the rear end of said transmission brake housing.

- 1,421,762. TRAIN-CONTROL SYSTEM. ELI J. BLAKE, Buffalo, N. Y., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed Oct. 31, 1918. Serial No. 280,506. 14 Claims. (Cl. 246-182.)



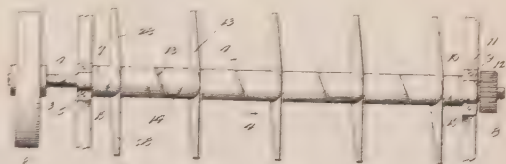
5. A controlling mechanism carried by a train comprising a member whose motion is proportional to the linear motion of the train, means independent of the movement of the train tending to move said member at an excessive speed, a synchronous motor adapted to control the movement of said member, and means controlled by the movement of the train to restrain said motor from motion other than synchronous with the motion of the train.

- 1,421,763. GRAIN CRIB. WARREN A. CALDWELL, Oskaloosa, Iowa. Filed May 31, 1921. Serial No. 474,925. 11 Claims. (Cl. 72-9.)



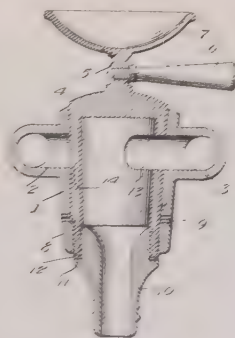
1. In a grain crib, in combination, crib sections spaced to provide an intermediate driveway, each section comprising an arcuate wall portion formed of a plurality of assembled stave units, an end wall closure adjacent the driveway, and means embracing the arcuate wall portion to maintain the unit stave members in assembled relation.

- 1,421,764. BAND CUTTER. SANDERS V. COCHRANE, Bridgetown, Tex. Filed June 30, 1921. Serial No. 481,602. 6 Claims. (Cl. 130-1.)



1. In band cutter mechanism, a rotatable shaft, spacing sleeves fitted onto the shaft and having their ends non-correspondingly obliquely disposed, and knives interposed between the ends of the sleeves.

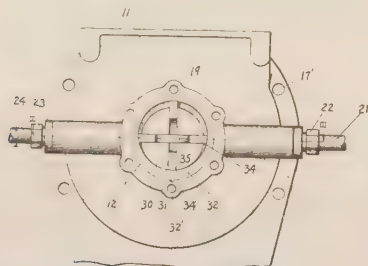
- 1,421,765. FAUCET VALVE. EMERY L. CUNNINGHAM, Sikeston, Mo. Filed June 15, 1920. Serial No. 389,122. 1 Claim. (Cl. 251-95.)



A faucet valve comprising a casing having both ends open and a pair of spaced inlet nipples, one of said nipples being connected with the hot water supply and the other with the cold water supply, a valve member fitted within said casing and formed to make a water tight fit therein, an upright supported by the upper end of said valve member and a handle secured to said upright, a soap cup

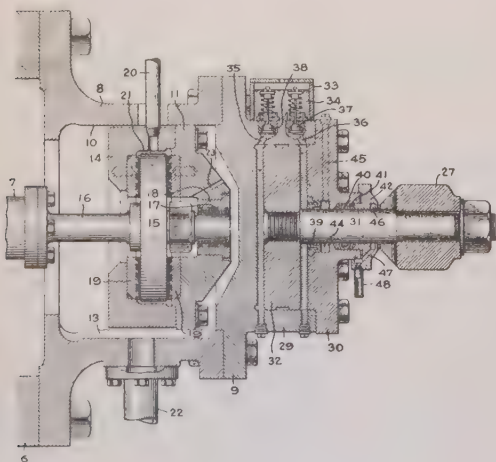
mounted on the top of said upright, said casing and valve having tapered formation and the lower end of said valve being screw threaded to receive a nut, a crimped steel washer located between the nut and the bottom of the casing, a nozzle fitted in the lower end of the valve member, a shoulder formed on said nozzle and a gasket located between the shoulder and the end of the valve member, the wall of said valve member having a slot formed therein of such a length as to leave a closure part of a size slightly greater than a half circle.

1,421,766. ROTARY PUMP. HENRY J. EDWARDS, Elyria, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 11, 1919. Serial No. 270,679. 7 Claims. (Cl. 103—44.)



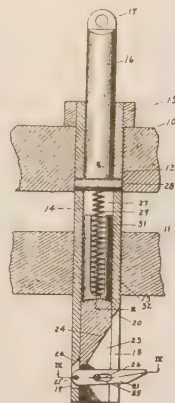
1. In a device of the class described, an eccentric chamber, a rotating drum positioned therein, and a plurality of pistons arranged in pairs and slidably positioned in said drum, the pistons of each pair being connected to each other by a leaf spring.

1,421,767. PACKING FOR MERCURY DASHPOTS. WILLIAM EDWARDS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1920. Serial No. 420,804. 3 Claims. (Cl. 188—100.)



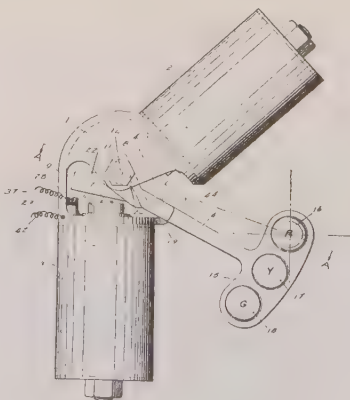
1. A dashpot comprising a cylinder, a piston therein having a rod which extends through the cylinder head, a reservoir, conduits for conveying liquid from the reservoir to the cylinder, and means for preventing leakage of air around the rod comprising two spaced packings having an annular chamber between them, and means defining a conduit which connects the chamber to the reservoir.

1,421,768. KINGBOLT. ALBERT EGBERT and EDWARD HOLMES, Toledo, Ohio. Filed Dec. 19, 1918. Serial No. 267,528. 6 Claims. (Cl. 85—3.)



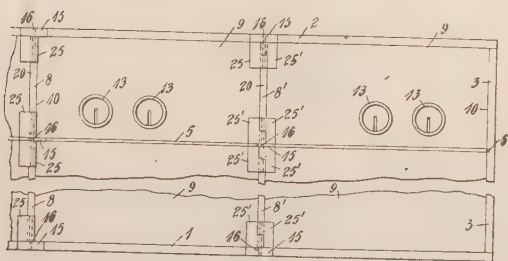
1. In a device of the class described, a sleeve, a slotted member slidably mounted in the sleeve, a pin carried by the sleeve and extending through the slot formed in said member, a spring co-operating with said pin and member for yieldably urging the member in one direction relative to the pin, a detent, and co-operating means carried by said sleeve and member for retracting the detent upon relative movement of the sleeve and member against the tension exerted by the spring.

1,421,769. THREE-POSITION OPERATING MECHANISM. OSCAR S. FIELD, Roselle, N. J., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed July 6, 1918. Serial No. 243,654. 2 Claims. (Cl. 246—223.)



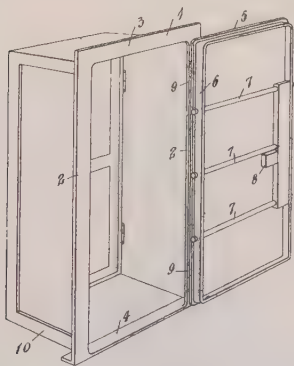
2. In a three position operating mechanism, two electromagnets, coacting armatures for said electromagnets, a movable element controlled by said armatures and biased to a neutral position, means whereby upon the energization of one of said electromagnets both armatures will be caused to move in unison to operate the movable element to one position, means upon the movement of the armatures for conditioning the circuit of the other electromagnet so that said electromagnet may be energized, and means whereby upon energization of said other electromagnet only one armature will be caused to move to operate the movable element to another position.

1,421,770. SAFETY-DEPOSIT CONSTRUCTION. JOSEPH FREYBERG and LEO F. WUBBOLDING, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 8, 1919. Serial No. 316,229. 29 Claims. (Cl. 109—7.)



1. In a construction of the character described, a case comprising a top and a bottom and sides and a back, formed of flat plates with their edges suitably joined at the corners of the case, transverse partitions or shelves extending from front to back and from side to side of the interior of said case and suitably secured to said sides and back, partitions extending upright between adjacent transverse partitions or shelves and extending to said back and suitably secured thereto, but terminating short of the front of said case, said transverse partitions or shelves having slots in front of the respective upright partitions, jambs extending from top to bottom of said case through said slots and retentively engaging said upright partitions, and closures abutting said jambs.

1,421,771. VAULT FRONT AND DOOR CONSTRUCTION. JOSEPH FREYBERG and LEO F. WUBBOLDING, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 18, 1919. Serial No. 318,230. 2 Claims. (Cl. 109—1.)

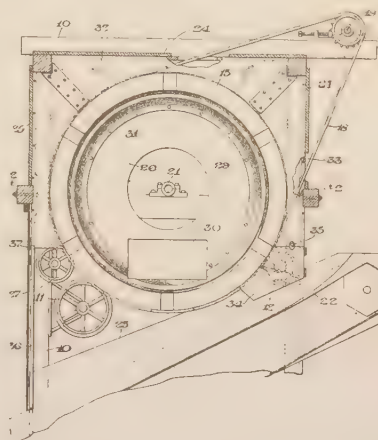


1. A vault front comprising a flat plate or sheet having an interior portion of the metal of said plate cut therefrom to form a door opening and having the lower end of said plate bent along the lower edge of said opening to form a door plate.

1,421,772. GREEN-PEA VINER. FRANK HAMACHEK, Kewaunee, Wis. Filed Nov. 15, 1920. Serial No. 424,295. 8 Claims. (Cl. 130—30.)

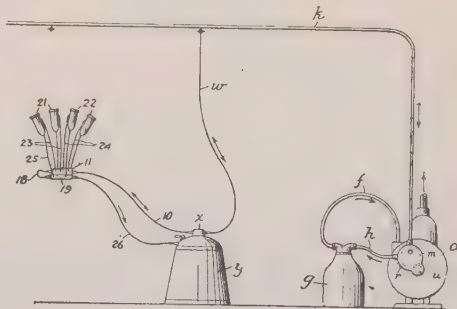
1. In a green pea viner having a separating drum with end rings and screens and means engaging the end rings

for supporting and rotating it, a guard for preventing the peas from being crushed by the supporting and rotating



means consisting of a partition extending across the viner and fitted to an end ring of the separating drum between the engaged parts thereof and the screens.

1,421,773. MILKING-MACHINE SYSTEM. CERUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 28, 1921. Serial No. 473,254. 6 Claims. (Cl. 31—101.)



1. A milking machine system comprising a pneumatic pulsation pipe line, a master pulsator adapted to create pneumatic pulsations in said pipe line, a milk pail, said pipe line connecting with the pail, means to prevent flow of air from the pipe line to the milk pail while allowing flow of air from the pail to the pipe line, a set of double chamber teat cups, a claw comprising a milk chamber and a valve chamber, the latter having an air port, pipe connections between the outer chambers of the teat cups and the valve chamber, a secondary valve in the valve chamber, said pipe line connecting with the valve chamber and controlling the secondary valve, a pipe connection from the inner teat cup chambers to the milk chamber of the claw, a pipe connection from the milk chamber of the claw to the pail, and an air connection between the valve chamber and the milk chamber, said valve adapted to connect each outer teat cup chamber alternately with atmosphere and through the last named connection with the milk chamber of the claw.

2. A milking machine system comprising a set of double chamber teat cups, a milk pail connected with the inner teat cup chambers, a pneumatic pulsation pipe line communicating with the milk pail, means to prevent flow of air from said pipe line to the pail, a master pulsator adapted to create pneumatic pulsations in said pipe line, a second-

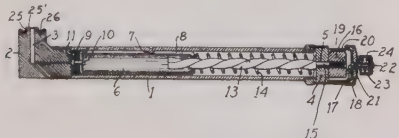
ary valve adapted to connect each outer teat cup chamber alternately with pressure and with the milk pail, said pneumatic pulsation pipe line connecting also with the secondary valve and controlling its operation, whereby in a single pipe line system the primary pulsations therein effect exhaust of air from the milk pail and from the inner chambers of the teat cups and operate a secondary valve to admit air to the outer chambers of the teat cups and exhaust air therefrom into the milk discharge.

4. A milking machine system comprising a primary pneumatic pulsation pipe line, a master pulsator adapted to create pulsations therein, a set of double chamber teat cups, a milk pail connected with the inner chambers of the teat cups, a secondary pulsator adapted to admit air to each teat cup and exhaust air therefrom to the milk pail, a casing forming an air passage communicating with the milk pail, a check valve between said air passage and milk pail normally preventing inflow of air from said passage to the pail and allowing outflow of air from the pail to said passage, and pipe connections from said air passage to the primary pulsation pipe line and to the secondary pulsator.

5. A milking machine system comprising a set of double chamber teat cups, a milk pail connected with the inner chambers of the teat cups, a secondary pulsator adapted to admit air to each teat cup and exhaust air therefrom to the milk pail, a pulsation pipe line, means whereby the pneumatic pulsations in the latter control the operation of the secondary pulsator and exhaust air from the milk pail, a vacuum pump, a master pulsator applied direct to the pump and connected with a source of pressure and with the pulsation pipe line, a vacuum reservoir and stabilizer, and pipe connections therefrom to the master pulsator and to the pump respectively, the master pulsator operating to connect the pulsation pipe line alternately with the vacuum reservoir and stabilizer and with pressure.

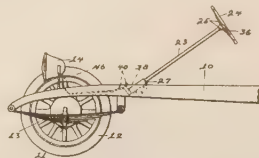
6. A milking machine system comprising a set of double chamber teat cups, a milk pail connected with the inner chambers of the teat cups, a secondary pulsator adapted to admit air to each teat cup and exhaust air therefrom to the milk pail, a pulsation pipe line, means whereby the pneumatic pulsations in the latter control the operation of the secondary pulsator and exhaust air from the milk pail, a vacuum pump, a master pulsator comprising a valve seat applied to the pump and a valve operating on said seat and connected with a source of pressure, the pulsation pipe line being connected with the valve seat, a vacuum reservoir and stabilizer, pipe connections therefrom respectively to the valve seat and to the vacuum chamber of the pump, there being ports and passages in the valve and valve seat adapted in the operation of the valve to connect the pulsation pipe line alternately with the vacuum reservoir and stabilizer and with said source of pressure.

1,421,774. PRESSURE GAUGE. HARRY E. HARDER, St. Louis, Mo., assignor of one-half to William F. Leschen, St. Louis, Mo. Filed Apr. 7, 1919. Serial No. 288,150. 8 Claims. (Cl. 73—111.)



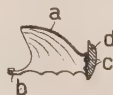
1. A pressure gauge comprising a barrel, a rotatable pressure indicator having a thrust-receiving abutment, a rotary driver having an abutment adapted to engage said thrust-receiving abutment on but one side to transmit rotary movement in only one direction to said rotatable indicator, said rotary driver being movable in the opposite direction independently of said indicator, a spiral member operatively connected to said driver and extending longitudinally of said barrel, and a fluid actuated plunger located in said barrel and cooperating with said spiral member to impart rotary movement to said driver.

1,421,775. HEADLIGHT-CONTROLLING MECHANISM. WILLIAM F. HARRINGTON, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,042. 12 Claims. (Cl. 240—41.)



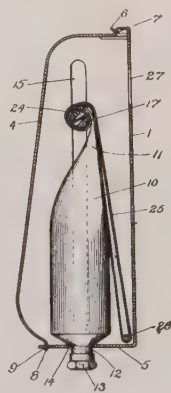
1. The combination with a motor vehicle provided with a steering column, of a headlight supported on said motor vehicle and provided with a reflector tiltably about a horizontal axis; a headlight control column disposed within said steering column; means for rotating said control column; and connections between said control column and said reflector, whereby the rotation of said control column will tilt the reflector.

1,421,776. MATERIAL FOR ARTIFICIAL INTERNAL MEMBERS OF THE HUMAN BODY. FRIEDRICH HAUPTMEYER, Essen, Germany. Filed Sept. 3, 1920. Serial No. 408,083. 5 Claims. (Cl. 32—12.)



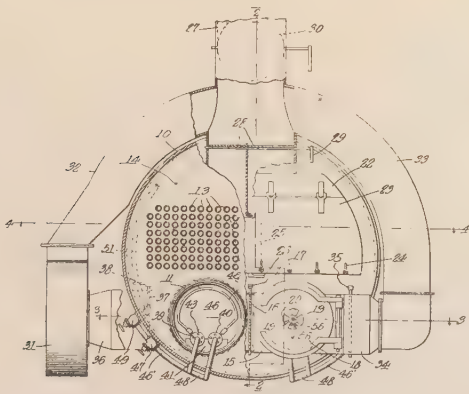
5. As a new article of manufacture, an artificial member to be used internally for living organisms made up of a chromium-nickel-steel alloy having the composition chromium 18 to 23 per cent, nickel 5 to 10 per cent, carbon .1 to .4 per cent.

1,421,777. DISPENSING DEVICE. JOEL E. HAWLEY, Kansas City, Mo., and ARTHUR W. CAPS, Topeka, Kans., assignors of one-fourth to William Jackson Riley, Kansas City, Mo. Filed Mar. 17, 1921. Serial No. 453,090. 3 Claims. (Cl. 221—60.)



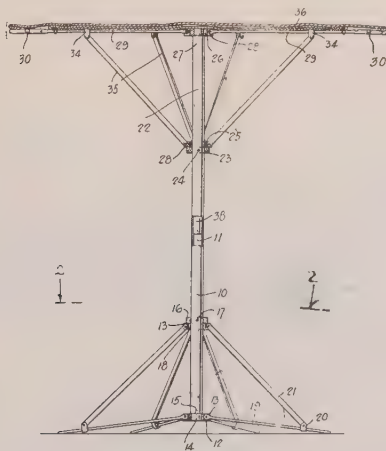
1. A material expressing device for flexible tubes comprising a cabinet, aligning, vertical grooves in the respective side walls thereof, means for supporting a paste containing tube having an open end and a closed end, a roller in the groove, means for rotating the roller to wind the closed end of the tube progressively about the roller to progressively apply pressure from the closed end of the tube toward the front end thereof, and an anchoring means for the roller comprising an anchor and a flexible connection adapted to wind upon the roller co-extensively with the winding of the tube thereabout.

1,421,778. BOILER. MAURICE J. HEALY, West Hoboken, N. J. Filed Apr. 28, 1921. Serial No. 465,183. 6 Claims. (Cl. 110—49.)



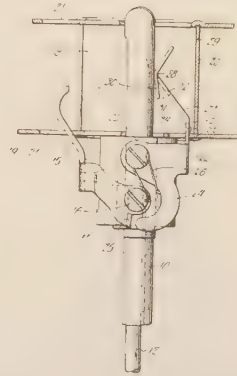
2. In a boiler, a shell, a plurality of separate combustion chambers in the shell, a corresponding number of sets of flues connected with the rear ends of the separate combustion chambers and extending to the forward end of said shell, a smoke box serving to connect the sets of flues at their forward ends, an air box connecting the forward ends of the combustion chambers, and means to withdraw gas from one end of the air box and force the same into the opposite end of the air box.

1,421,779. FOLDABLE CHAIR OR THE LIKE. WILLIAM HEERLING, New York, N. Y. Filed Dec. 24, 1921. Serial No. 524,657. 2 Claims. (Cl. 45—11.)



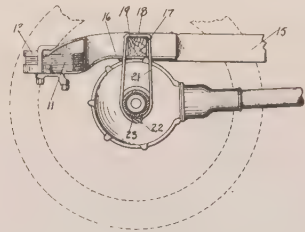
1. An article of furniture comprising a center post, a head therefor including a spider fixed to the upper end of the post, a plurality of ribs pivoted to the spider and radiating therefrom outward in a plane perpendicular to the post in operative position, each of said ribs comprising a plurality of sections articulated together around a horizontal pivot, one section of each rib being foldable upward and inward upon the other for use of the device as a chair, the jointed portions of each rib having interlocking connections on opposite sides of the pivot, one of said connections being positive to limit the movement of one section with respect to the other while the other interlocking connection comprises one member snapping into another, and braces between the ribs and the post.

1,421,780. RIBBON MECHANISM FOR TYPEWRITERS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Dec. 22, 1920. Serial No. 432,405. 17 Claims. (Cl. 197—160.)



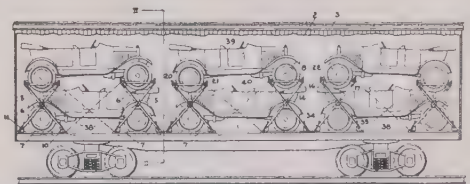
1. Ribbon mechanism for typewriters comprising a ribbon spool support, a device connected with said support and controlled by the ribbon on said spool, and means for automatically positioning said device relative to said spool prior to engagement between said device and spool when said spool is placed upon said support.

1,421,781. WIRE TIE. EDWARD HOLMES, Toledo, Ohio. Filed Aug. 30, 1920. Serial No. 407,022. 7 Claims. (Cl. 267—1.)



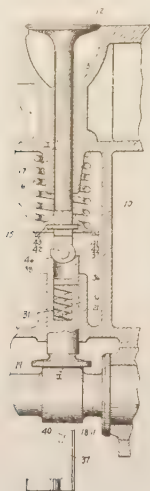
1. Means for holding compressed the springs of an automobile, comprising an element carried by the frame of the automobile, a holder made of resilient metal, adapted to bear upon the top of said element and having sides extending downwardly upon the opposite sides of the automobile axle, the ends of said holder being bent toward each other beneath the axle and provided with interlocking means adapted to be automatically engaged by pressure of the said ends together.

1,421,782. DECKING APPARATUS FOR VEHICLES. EDWARD HOLMES, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 7, 1921. Serial No. 443,312. 19 Claims. (Cl. 105—368.)



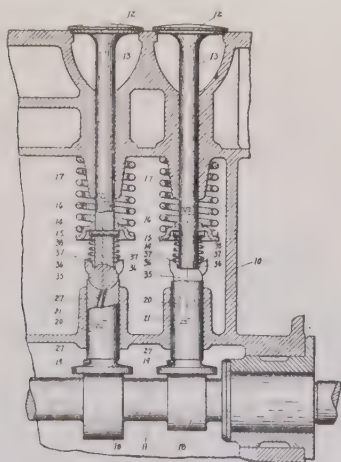
1. In a decking system for automobiles or the like, the combination of end supporting members, and transverse frame members connecting the end members together, the said end members comprising diagonally disposed standards crossing each other at a point intermediate their ends.

1,421,783. AUTOMATIC TAKE-UP DEVICE. FRANCIS JERDONE, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,769. 14 Claims. (Cl. 123—90.)



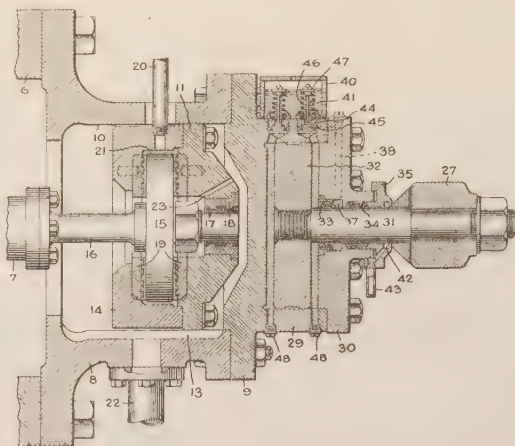
1. In an automatic take-up device, the combination with the valve stem and push rod of an internal combustion engine, a cam shaft for actuating said parts, a cam between said valve stem and push rod, a spring carried by the push rod within a recess formed therein, and a cam operating member disposed between said spring and cam for actuating the latter to compensate for lost motion between the valve and cam shaft.

1,421,784. AUTOMATIC TAKE-UP DEVICE. FRANCIS JERDONE, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1919. Serial No. 278,770. 17 Claims. (Cl. 123—90.)



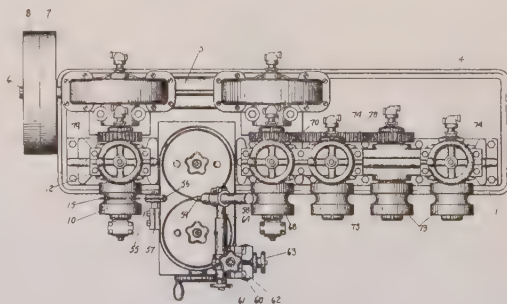
1. In an automatic take-up device, the combination with two or more members to be actuated, and a spring actuated member interposed between the first mentioned members and rotatable about an axis extending transversely to and intersecting the longitudinal axis of the members to be actuated and tending to move the same in opposite directions.

1,421,785. VIBRATION DAMPER. OSCAR JUNGREN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 24, 1920. Serial No. 353,753. 19 Claims. (Cl. 188—91.)



1. The combination with a rotor which is subject to axial vibrations, of thrust absorbing means connected to the rotor, said thrust absorbing means being capable of axial movement, a dashpot, and means connecting the movable member of the dash pot to the thrust absorbing means.

1,421,786. TUBE-WELDING MACHINE. EDWARD KAMPER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 26, 1919. Serial No. 306,832. 23 Claims. (Cl. 78—87.)

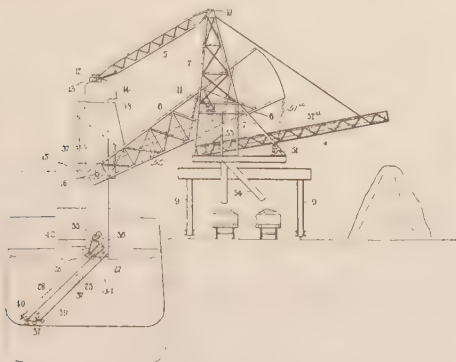


1. In a tube welding machine, a pair of feed rolls, a pair of co-operating pressure rolls, means for mounting said pressure rolls, means for clamping said pressure rolls together and means engaging said first means for yieldingly positioning said pressure rolls relative to said feed rolls.

1,421,787. ELEVATOR. COLIN PETER KININMONT, Manchester, England, assignor to Henry Simon Limited, Manchester, England. Filed Mar. 21, 1922. Serial No. 545,579. 3 Claims. (Cl. 198—117.)

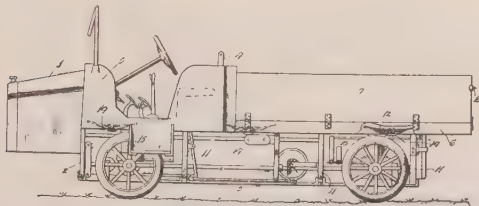
1. In a device of the kind described, a vertical elevator, a parallel motion support for said elevator and having swivelling connection thereto to permit rotation of the elevator on its vertical axis, a leg at the bottom of said ele-

vator including a pair of members pivoted to the elevator and arranged to swing in constant parallel position to each



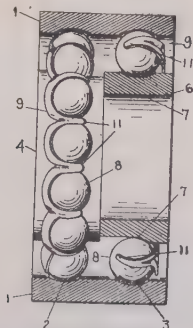
other, and a bucket chain carried by said members and extending at their free ends between the two members.

1,421,788. AUTOMOBILE BODY. WILBERT F. KINCAID, Gauley Bridge, W. Va., assignor of one-half to Albert H. Mason, Gauley Bridge, W. Va. Original application filed Sept. 3, 1920, Serial No. 407,919. Divided and this application filed Apr. 9, 1921. Serial No. 460,012. 1 Claim. (Cl. 280—124.)



In an automobile, the combination of a chassis including transverse bolsters, longitudinal sills secured rigidly on said bolsters at the ends thereof, transverse bars secured rigidly on said sills, longitudinally extending springs mounted on the ends of said transverse bars, a body including a platform extending over the bolsters or sills and the transverse bars, and detachable fastenings inserted through the depending side members of the platform and the end eyes of the springs.

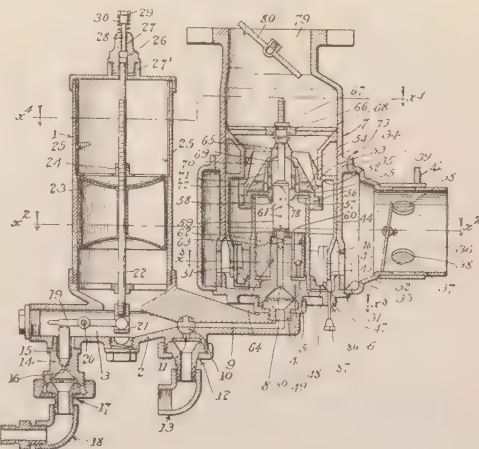
1,421,789. BEARING. HARFORD C. KNOWLES, Elmira, N. Y., assignor, by mesne assignments, to The Willys-Morrow Company, Inc., a Corporation of Ohio. Filed Feb. 21, 1916. Serial No. 79,645. 6 Claims. (Cl. 64—59.)



6. An annular bearing comprising inner and outer rings provided with opposite ball races, balls disposed in said races and an annular spacer having a base ring contacting

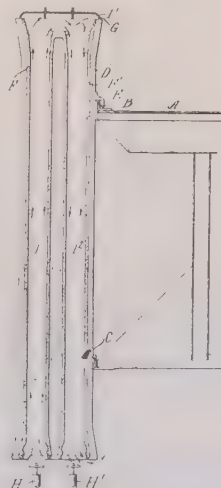
with each of said balls at a single point in line with the axis of the revolution of the corresponding ball and provided with a plurality of fingers projecting from the base ring in a direction approximately parallel to the axis of the bearing, the free extremities of the fingers being yieldable radially of the bearing and each adapted to engage adjacent balls on the side opposite the said ring contact.

1,421,790. CARBURETOR. HERBERT V. LEAHY, Los Angeles, Calif., assignor to Hercules Carburetor Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 14, 1919. Serial No. 289,981. 3 Claims. (Cl. 261—66.)



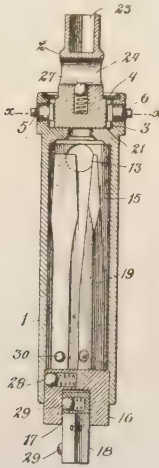
2. In a carburetor, the combination of a fuel chamber, a nozzle mounted on the upper end of the fuel chamber, a post extending into the fuel chamber and having a fuel duct, a valve to control the fuel duct and projecting into the nozzle, and a chambered stem for the valve having a port communicating with the fuel chamber and another port communicating with the interior of the nozzle.

1,421,791. METHOD OF DRYING MOLDS. LOUIS R. LEMOINE, Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed May 27, 1921. Serial No. 473,101. 6 Claims. (Cl. 22—87.)



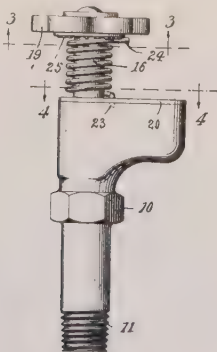
1. The method of drying molds which consists in connecting a plurality of molds in series and passing drying gases through the connected molds from one end to the other of the connected series.

1,421,792. COMBINATION RATCHET TOOL. ALFRED R. LINDEN, Dorchester, Mass., assignor of one-half to Sarah W. Campbell, Newton, Mass. Filed Aug. 2, 1921. Serial No. 489,337. 14 Claims. (Cl. 81—60.)



1. A tool comprising two coaxial members, and means operable to permit relative rotation of said members in one direction, and to prevent relative rotation of said members in the other direction, each of said members being provided with an aperture for the reception of a lever bar.

1,421,793. PRIMING VALVE. ROBERT W. LINLEY and PHILLIP B. LINLEY, Fairfield, Conn. Filed Jan. 14, 1921. Serial No. 437,314. 3 Claims. (Cl. 123—187.5.)

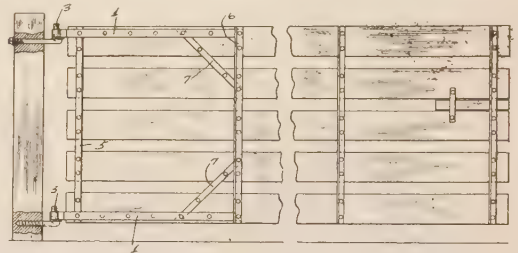


1. A priming cup including a reservoir, a valve and valve stem having an operating handle, a cover pivoted upon the valve stem and adapted to close the reservoir, and a spring upon the valve stem having one of its ends in frictional engagement with the handle and its other end directly secured to the cover, to open and close the same.

1,421,794. FARM-GATE HINGE. ROBERT McLAUGHLIN, Monmouth, Ill., assignor of one-half to A. G. Patton, Monmouth, Ill. Filed Nov. 15, 1920. Serial No. 424,151. 2 Claims. (Cl. 39—87.)

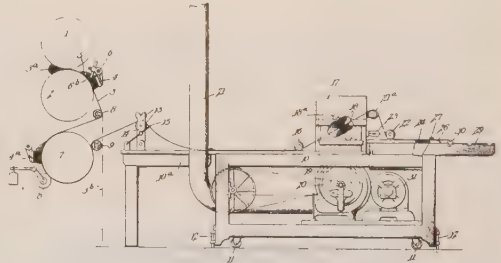
1. The combination with a gate, upper and lower hinges connected thereto and extending forward a distance equal to approximately the depth of said gate, a pair of vertical

struts secured to the gate near the rear end thereof, a second pair of struts secured to said gate at the forward



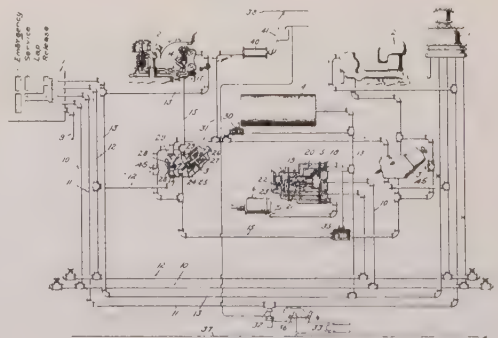
end of said hinges, said hinges being connected to said struts, and members bracing said hinges with one pair of struts whereby a rectangular trussed frame is provided.

1,421,795. APPARATUS FOR PRODUCING THIN RUBBER SHEETS. OTTO H. MACKLIN, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 16, 1921. Serial No. 452,884. 13 Claims. (Cl. 18—10.)



1. Apparatus of the class described comprising calender means for forming rubber compound into a thin sheet, means associated with the calender means for applying powdered material to the sheet being formed thereby, and means for removing the surplus powder from the surface of the sheet.

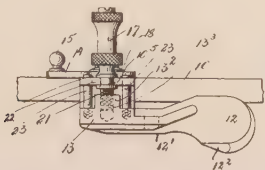
1,421,796. SAFETY CAR-CONTROL EQUIPMENT. GEORGE MACLOSKIE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Feb. 19, 1921. Serial No. 446,433. 9 Claims. (Cl. 303—6.)



1. In a safety car control equipment, the combination of a source of fluid pressure, a brake cylinder, a safety control pipe, a valve device operated by venting fluid from said safety control pipe for establishing communications between said source and brake cylinder, a controller handle, a pilot valve operated upon the release of said handle for venting fluid from said control pipe, a fluid operated power circuit breaker, and a manually controlled valve adapted to control the communication through said control pipe and

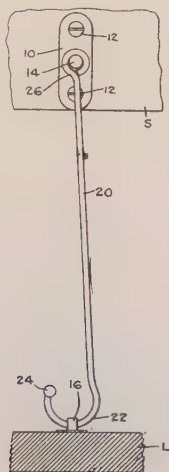
the communication to said circuit breaker so that when said valve is in one position said valve device is operated to apply the brakes when said controller handle is released and said circuit breaker is closed, and when in another position said circuit breaker is opened and the release of said controller handle does not affect the operation of said emergency valve to apply the brakes.

- 1,421,797. PRESSER-FOOT ATTACHMENT FOR SEWING MACHINES. EDWARD J. MALONEY, Long Island City, N. Y., assignor to Andrew Wolf, New York, N. Y. Filed Dec. 6, 1920. Serial No. 428,432. 2 Claims. (Cl. 112—235.)



1. In a presser foot attachment for sewing machines, the combination with a supporting arm, of a presser foot, a screw bolt rotatively supported in said arm so as to be held against relative upward movement and working in said foot and guide pins for guiding said foot vertically.

- 1,421,798. STORM-SASH FASTENER. WILLIAM MANDEL, Minneapolis, Minn. Filed Feb. 5, 1921. Serial No. 442,803. 2 Claims. (Cl. 292—262.)

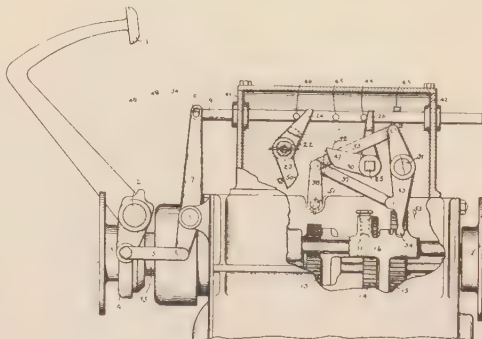


1. A storm sash fastener comprising a rod having a curved outer portion, an eye member adapted to be secured to the middle of the lower sash member, said curved portion extending slidably through said eye member, a pin adapted to be secured to the middle of the window sill, and a looped portion on the inner end of said rod for engagement with said pin for holding the sash in open position, said pin being also adapted for engagement by said curved portion for holding the sash in closed position.

- 1,421,799. CHANGE-SPEED-GEAR MECHANISM. HENRY J. MANSELL, Oakland, and CONRAD D. FRY, Alameda, Calif. Filed Aug. 12, 1920, Serial No. 403,164. Renewed Mar. 9, 1922. Serial No. 542,481. 6 Claims. (Cl. 74—58.)

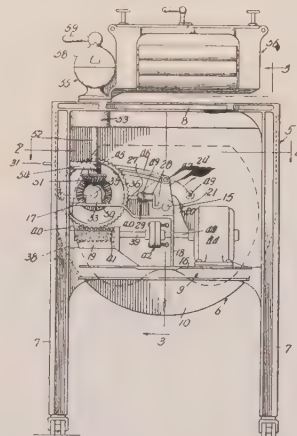
1. In gear shifting mechanism a plurality of gears constructed and adapted to be engaged in any of a plurality of combinations, a lever and connections for each com-

bination, a plurality of cams adapted to actuate said levers to disengage any existing gear combination, a selector movable opposite to any of said levers and adapted when operated in said position to cause the



movement of the corresponding lever to establish a gear combination, and a pedal and connections actuating said cams and thereafter operating the selector to shift one of the levers depending upon its selected position.

- 1,421,800. GEARING. THOMAS H. MARS, Chicago, Ill., assignor to Federal Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 19, 1920. Serial No. 359,979. 4 Claims. (Cl. 74—50.)

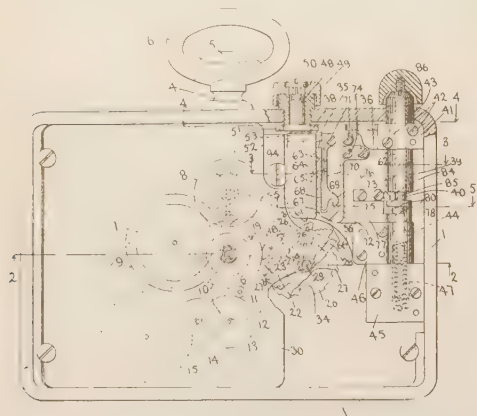


1. In combination with a support including a bracket having an upright back flange and top and bottom platforms, an oscillating operating shaft journaled in said back flange and top platform, a crank arm loose on said operating shaft, means for operatively connecting and disconnecting said crank arm to said operating shaft, a second shaft on the top platform parallel with the operating shaft, a gear on said second shaft and a pitman connecting said gear with said crank arm, a motor on said bottom platform, and means between said platforms for operatively connecting the motor with the gear.

- 1,421,801. REPEATER TIMEPIECE. EDWARD A. MARSH, Newton, Mass., assignor to Waltham Watch Company, Waltham, Mass., a Corporation of Massachusetts. Filed June 13, 1921. Serial No. 477,046. 17 Claims. (Cl. 58—60.)

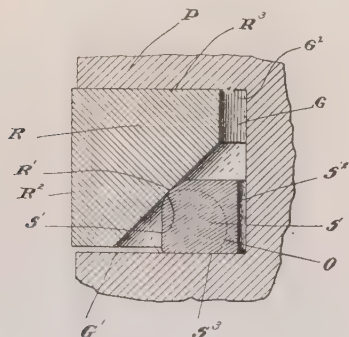
3. In a watch, a time movement including a hand-driving train adapted to be moved by setting the hands independently of said time movement, and a repeating

mechanism beside the time movement including a time element geared to said train to be actuated in unison



therewith, whether in running or in being set, and means cooperating with said element for giving invisible time indications.

1,421,802. PISTON PACKING. LEWIS C. MARSHALL, Walpole, Mass., assignor to Pressure Proof Piston Ring Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 14, 1920. Serial No. 373,912. 1 Claim. (Cl. 74—109.)

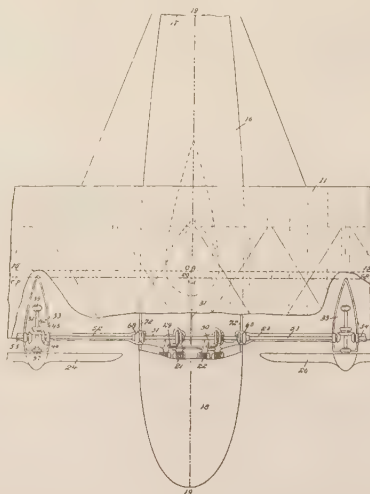


The combination, with a circumferentially grooved piston, of a packing ring provided with a beveled interior face, a spring ring of drawn wire having substantially the cross-section of a square with a rounded corner, and retaining the original cross-section produced by drawing, the rounded surface bearing expansively against the beveled face of the packing ring, and one of the plane surfaces seating on a plane surface of the circumferential groove in the piston.

1,421,803. TRACTOR BIPLANE. JAMES V. MARTIN, Elyria, Ohio. Filed May 26, 1917. Serial No. 171,102. Renewed Nov. 18, 1921. Serial No. 516,246. 14 Claims. (Cl. 244—25.)

1. In a device of the class described, the combination with a motive power element and a tractor screw, a mounting for the tractor screw capable of slight movement relative to the power element, of a series of rigid shafts connecting said element to drive said screw, driving gear couplings between adjacent ends of certain of said shafts to permit relative movement of the axes of said adjacent

shafts while maintaining a driving connection there-through and enclosures for certain of said shafts, said

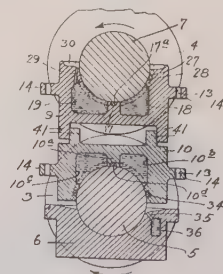


enclosures extending from front to rear of the device to provide stream line effects and means for flexibly connecting adjacent enclosures.

1,421,804. PROCESS OF REMOVING IRON FROM SOLUTIONS CONTAINING ALUMINIUM. THOR MEJDELL, Christiania, Norway, assignor to A/S Labrador, Christiania, Norway, a business entity of Christiania, Norway. Filed Feb. 27, 1920. Serial No. 361,808. 10 Claims. (Cl. 23—13.)

1. Process of removing iron from solutions containing an aluminium salt, which comprises adding a substance capable of neutralizing the acid liberated by hydrolysis in a quantity insufficient to neutralize all of said acid, and effecting precipitation of iron uncombined with other metals by heating.

1,421,805. LUBRICATING DEVICE FOR ROLLING MILLS. GEORGE E. MELOWN, McKeesport, Pa. Filed Nov. 5, 1920. Serial No. 422,090. 11 Claims. (Cl. 64—28.)

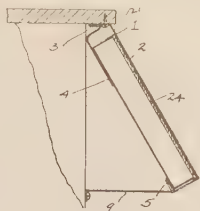


1. In a lubricating device for rolling mills, the combination with the housings, of rolls mounted therein, floating boxes for containing a lubricant held in proper position with reference to the necks of said rolls, and means for independently adjusting said boxes with respect to said roll necks.

1,421,806. DISPLAY ATTACHMENT FOR COUNTERS. WILLIAM O. MELVIN, Lakewood, Ohio. Filed July 1, 1921. Serial No. 481,751. 8 Claims. (Cl. 211—9.)

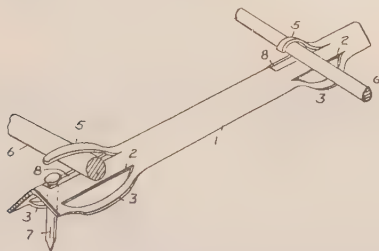
2. A display attachment for store fixtures comprising a casing provided with a series of display openings and having an inclined portion through which fastening means may be placed and series of inclined supporting strips at

the lower edge of said casing, an up-turned flange adjacent the base of said casing, and extending downwardly in the rear of each of said openings, a series of boxlike con-



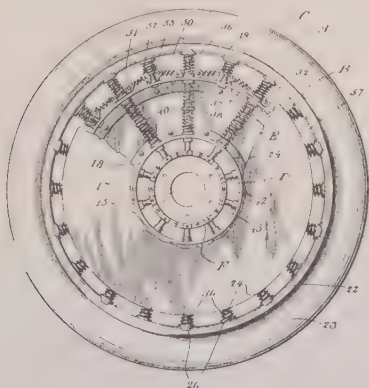
ainers provided with transparent covers and adapted to be seated within said up-turned flange and engaged by said resilient tongues.

1,421,807. SPACING BAR. FRITZ L. METZGER, Avalon, Pa. Filed Feb. 8, 1921. Serial No. 443,344. 5 Claims. (Cl. 72-122.)



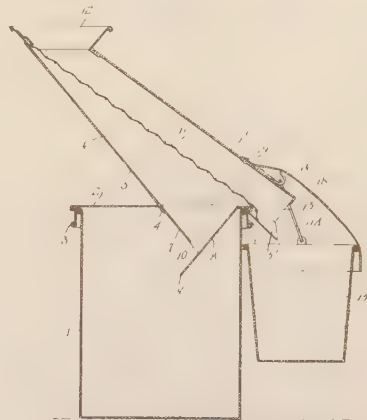
1. In a spacing bar for reinforced concrete construction, a V-shaped bar of ductile sheet metal having at opposite edges thereof a series of one-piece legs bent therefrom at the same side of the bar and integral therewith at both ends, the outer faces of the legs being arranged in the same plane whereby they may contact from edge to edge with a support therefor.

1,421,808. VEHICLE SPRING WHEEL. CARL MIETHE, Chicago, Ill. Filed June 13, 1921. Serial No. 477,179. 5 Claims. (Cl. 152-28.)



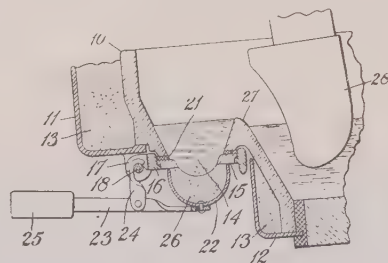
1. A spring wheel comprising a hub construction including a plurality of spaced annular bands, a felly construction surrounding the hub construction, a plurality of inwardly extending radially disposed spokes carried by the felly, the spaced bands formed on the hub construction having a plurality of slots therein arranged to receive the spokes, and shock absorbing springs coiled about said spokes and engaging respectively between the bands of the hub construction and between the outer band of the hub construction and the inner surface of the felly construction.

1,421,809. ASH SIFTER. PAUL MISCHKE, East Rutherford, N. J. Filed Oct. 22, 1921. Serial No. 509,477. 3 Claims. (Cl. 83-60.)



1. An ash sifter comprising a base having an opening on top, a chute arranged at an incline to the horizontal when in use, said chute being secured to said base and projecting through said opening, said chute having a bottom plate extending below the base and at right angles to the general direction of the chute, said chute adjacent the base having an opening so that ashes passing downwardly through said chute will strike said plate and be deflected so as to move at right angles through said opening whereby ash dust rising from beneath the chute cannot re-enter the chute, a wire mesh division member arranged in said chute so as to divide the chute into upper and lower compartments, the lower compartment acting as an ash guiding compartment and the upper compartment acting as a cinder guiding compartment.

1,421,810. CLOSURE FOR MOLTEN-GLASS OUTLETS. VERGIL MULHOLLAND, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y., a Corporation of New York. Filed July 26, 1921. Serial No. 487,585. 14 Claims. (Cl. 49-14.)

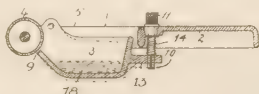


4. An insulating closure for the discharge outlet of a container for molten glass, comprising a holder provided with heat insulating material adapted to close the outlet, means for positioning the closure relative to the outlet, and means for yieldingly holding the closure against the outlet.

1,421,811. LIQUID-COATING MACHINE. EDUARD FELIX MÜLLER, Leipzig-Lindenau, Germany, assignor to E. A. Miller, Millvale Extension, Pa. Filed Apr. 8, 1922. Serial No. 550,782. 4 Claims. (Cl. 91-49.)

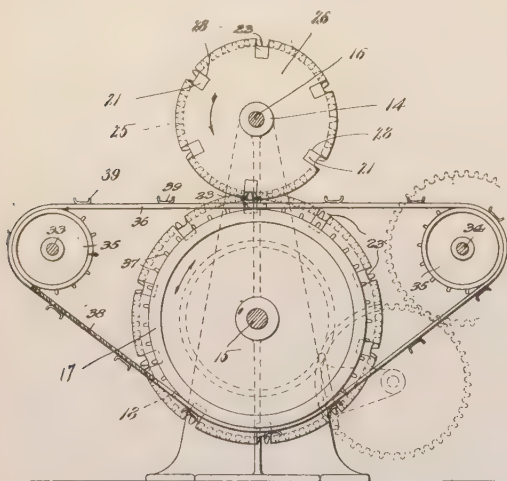
2. In a machine for applying a liquid coat on a surface, a roller, a frame connected to the ends of the roller, a

liquid-holding reservoir pivoted to the frame and having an opening close to the roller, and means for raising and



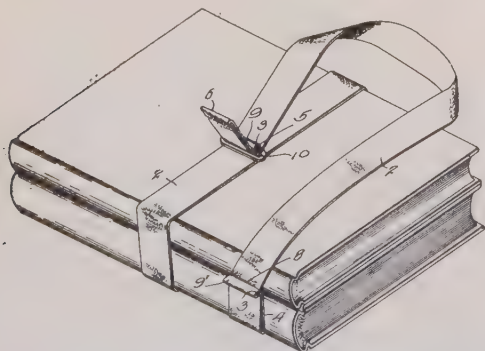
lowering the rear end of the reservoir to adjust the distance of the opening from the roller.

1,421,812. BROOM-BUNDLE-MAKING MACHINE. HARRY D. NEFF, Cambridge, Mass., assignor to Re-Filit Broom Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 12, 1920. Serial No. 423,730. 5 Claims. (Cl. 300—12.)



1. In a machine of the character described, the combination of a pair of positively driven wheels, a plurality of half dies, in the periphery of said wheels, the half dies in each wheel being adapted to successively register with each other during the rotation of the wheels and means for feeding broom bundles to said half dies.

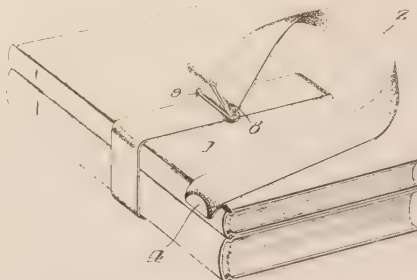
1,421,813. STRAP FASTENER. CLYDE S. NONNEMACHER. Wenonah, N. J. Filed Sept. 10, 1921. Serial No. 499,739. 7 Claims. (Cl. 24—17.)



1. In a strap fastener device, the combination of a metal member having a slot therethrough, a strap having a looped portion extending through said slot and adapted to encircle an article to be held, said slot being of a width adapted to receive not more than twice the thickness of said strap, one of the ends of said strap having a lateral projection formed of a thickened portion of the strap material and on the face thereof next adjacent the oppo-

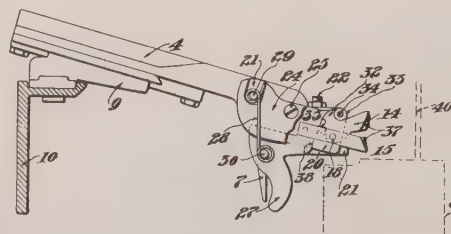
site end portion, said projection extending toward and having the tip end thereof frictionally engaging the adjacent opposite face of said opposite end portion, and being adapted to be drawn toward said slot and between the two strap ends projecting therethrough.

1,421,814. STRAP FASTENER. CLYDE S. NONNEMACHER. Wenonah, N. J. Filed Mar. 23, 1922. Serial No. 545,963. 3 Claims. (Cl. 24—17.)



1. In a strap fastener device the combination of a metal member having a slot therethrough, the wall on one side of said slot being of greater depth than the correspondingly opposite wall of said slot, a strap having a looped portion extending through said slot and adapted to encircle an article to be held, one of the ends of said strap having a lateral projection on the face thereof which projection is adapted to engage said metal member and bind against the adjacent face of the opposite end of the strap which opposite end extends beyond said metal member to be pulled to tighten the device.

1,421,815. LOOM-TEMPLE THREAD CUTTER. JONAS NORTHROP, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed June 7, 1918. Serial No. 238,650. 8 Claims. (Cl. 139—36.)

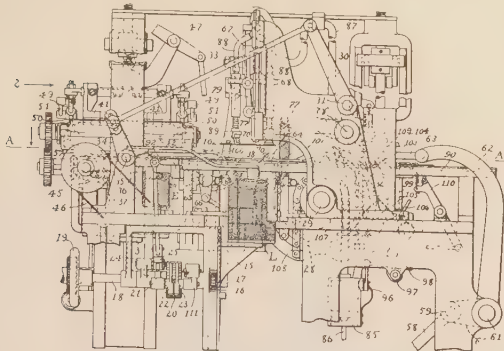


1. A thread cutter for looms comprising a movable supporting member, cutter blades mounted thereon and capable of movement independently thereof, the cutter blades having beveled rear edges adapted to engage a strand of filling when the cutter blades are moved rearwardly in a closed position and to thereby position the filling under tension to be received between the blades when they are opened, and means for opening the blades at near the end of their rearward movement and for closing the blades at the beginning of their subsequent forward movement.

1,421,816. MACHINE FOR MAKING LINED ENVELOPES. ABRAHAM NOVICK, Brooklyn, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1920. Serial No. 415,225. 11 Claims. (Cl. 93—61.)

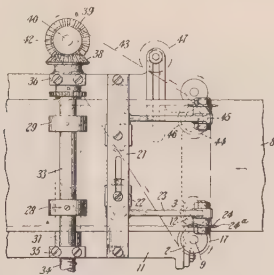
1. In an envelope machine for making lined envelopes, the combination of a support for a pile of envelope blanks, a lining blank receiving station, means for moving an

envelope blank from said support to said lining receiving station, another support for a pile of lining blanks, and



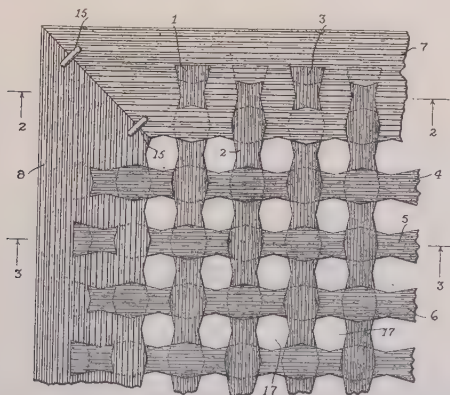
means for moving a lining blank in a rectangular path from said other support onto said envelope blank at the receiving station.

1,421,817. CREASING MECHANISM. ABRAHAM NOVICK, Brooklyn, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1921. Serial No. 457,735. 9 Claims. (Cl. 93—58.)



1. In a creasing mechanism the combination of a pair of peripherally coating rolls, means for feeding paper or the like over the faces of said rolls transverse their axes, and means for forming in the paper an offset portion along a line and for guiding said portion into the field of coaction of said rolls, whereby the paper is folded upon itself along said line.

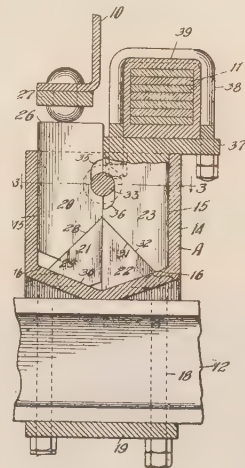
1,421,818. RUBBER MAT. CLIFFORD H. OAKLEY, Trenton, N. J. Filed Feb. 12, 1920. Serial No. 358,014. 9 Claims. (Cl. 15—215.)



1. A mat comprising a plurality of separate strips woven together, said strips channeled to receive parts of other

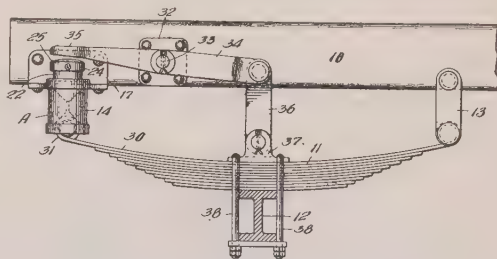
strips, the channels having varied widths throughout their lengths and interlocking with portions of correspondingly varying widths.

1,421,819. SHOCK ABSORBER. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 6, 1919. Serial No. 302,254. 7 Claims. (Cl. 267—9.)



1. In a shock absorber for vehicles having a body member, an axle, and a main spring interposed therebetween; a shock absorbing mechanism interposed between said spring and the axle and forming a support for the spring on the axle, said shock absorbing mechanism being arranged for direct actuation by said body member upon relative approach of said body member and axle beyond a predetermined amount.

1,421,820. SHOCK ABSORBER. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 6, 1919. Serial No. 302,255. 3 Claims. (Cl. 267—9.)



1. In a device of the character described, the combination with a vehicle body member, axle and spring interposed therebetween; of an auxiliary shock absorbing device including, a shell attached to the body member, a wedge, and friction shoes within the shell, said spring having one end thereof united to one of said elements; and independent means interposed between the axle and said device for actuating the latter after a predetermined relative approach of the axle and body member.

1,421,821. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 13, 1921. Serial No. 476,987. 7 Claims. (Cl. 213—64.)

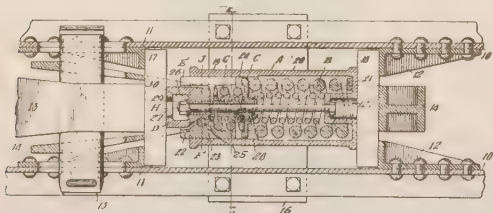
1. In a friction shock absorbing mechanism, the combination with a container provided on the interior with opposed wedge surfaces; of wedge-friction-shoes cooperable with said surfaces; spring means reacting between said container and said wedge-shoes normally tending to impel

the latter along said wedge surfaces; a friction plunger adapted to directly receive pressure at one end and fric-



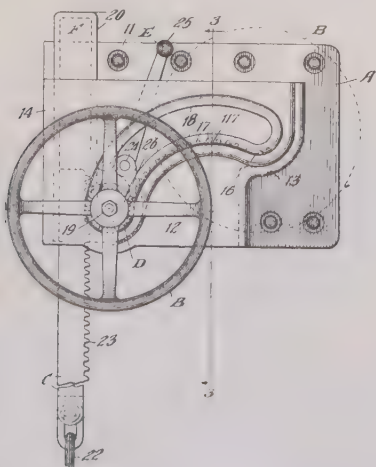
tionally slidable between said wedge-shoes; and a spring resistance cooperable with the opposite end of said plunger.

1,421,822. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 13, 1921. Serial No. 476,988. 6 Claims. (Cl. 213—64.)



4. In a friction shock absorbing mechanism, the combination with a casting having integrally formed friction shell and spring cage sections each provided with cylindrical interior surfaces; of a main spring resistance within said cage; a wedge and a cooperating series of circularly arranged friction shoes within said shell; a spring follower within said casting located between said main spring resistance and the shoes and normally spaced from the latter, said spring follower being freely movable lengthwise within said shell and cage; a preliminary spring resistance interposed between said follower and the shoes; and means for maintaining a predetermined normal relation between said friction shoes and spring follower and an initial compression upon the preliminary spring and also for maintaining the overall length of the mechanism.

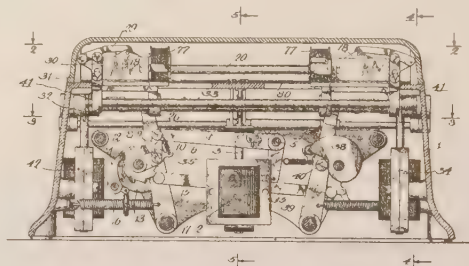
1,421,823. HAND BRAKE. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed June 30, 1921. Serial No. 481,556. 9 Claims. (Cl. 74—119.)



1. In a brake mechanism of the character described, the combination with a flexible element adapted to be connect-

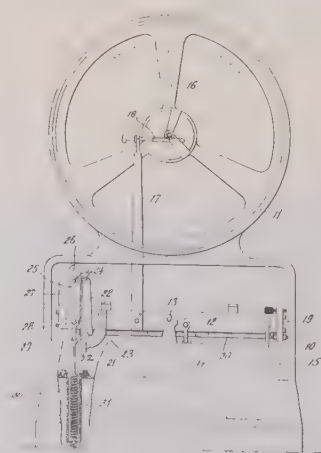
ed at one end with the brake rigging proper and a rack by which said element is adapted to be pulled at its opposite end; of a fixed bracket having a rack extending for a portion of its length in a direction generally parallel to the initial line of pull on the flexible element and gradually changing to a direction generally transverse to said line of pull; a gear in mesh with both of said racks; means for rotating said gear; and means for locking the parts against a release movement.

1,421,824. TIME RECORDER. GEORGE WILLIAM ODELL, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed June 29, 1921. Serial No. 481,196. 5 Claims. (Cl. 234—43.)



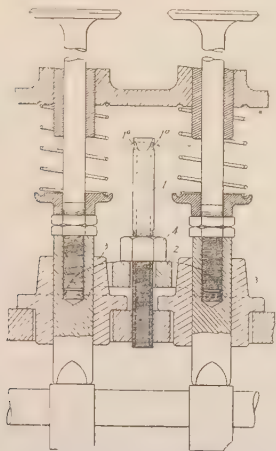
1. In a recording machine, four knives in positions to cut out sections of varying lengths from the side edges of a workman's card at the four corners, in combination with time-controlled means for advancing the knives to positions corresponding to fractions of an hour and working hours, and means controlled by a card inserted into the machine for operating the said knives first on the "on" side and subsequently on the "off" side of the card.

1,421,825. THERMOSTAT FOR PORTABLE SCALES. LOUIS A. OSGOOD, Dayton, Ohio, assignor to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Dec. 8, 1920. Serial No. 429,052. 6 Claims. (Cl. 265—69.)



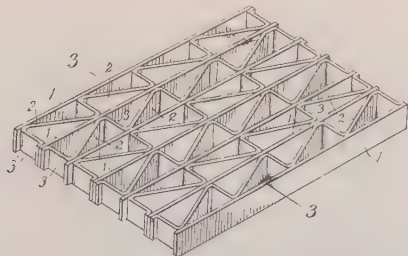
1. In a weighing scale in combination a scale lever, a pair of brackets carried thereby, a pair of connected swinging arms mounted to swing thereon, a thermostat connected to one of said arms and to said lever, a load counterbalancing spring, and a connection between the other of said arms and said spring, for the purpose described.

1,421,826. VALVE-STEM LUBRICATOR. EARL E. PARLOW, San Diego, Calif. Filed May 6, 1921. Serial No. 467,412. 3 Claims. (Cl. 184-6.)



3. A device of the class described, including the combination with the intake and exhaust valves of a gas engine of a conductor interposed between said valve stems and its one end communicating with the interior of the crank case, its other end provided with oppositely disposed apertures facing toward said valve stem, comprising a hollow bolt threaded at one end, screwed in a threaded hole in the crank case and its extended end provided with apertures communicating with the interior of said bolt.

1,421,827. FLOOR GRATING. WILLIAM L. PATTISON, Rosedale, Kans. Filed Dec. 18, 1920. Serial No. 431,737. 4 Claims. (Cl. 94-30.)

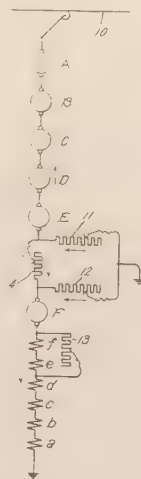


1. In a floor grating a plurality of parallel bars, and an intermediate bar having a plurality of parallel obliquely disposed portions and a plurality of cross portions connecting adjacent ends of said oblique portions and attached at their ends and disposed at right angles to said parallel bars respectively, substantially as set forth.

1,421,828. POWER TRANSMISSION AND ELECTRIC BRAKING. FRANKLIN H. PRITCHARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 11, 1920. Serial No. 409,639. 16 Claims. (Cl. 172-179.)

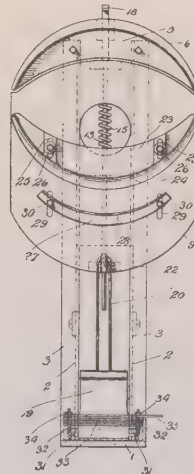
9. In a system of electric braking, a plurality of dynamo electric machines having severally armature and field windings, a portion of said machines operating as a self-excited exciter connected in a local circuit with the field windings of said machines, the armatures of the re-

mainder of said machines operatively connected to each other, a resistor-establishing a connection between the



said remainder of the armatures and the field windings of said machines, and a plurality of resistors in the said local circuit connected in multiple by the first resistor.

1,421,829. HOOP-FORMING MACHINE. WILLIAM W. PUTNEY, Grand Rapids, Mich., assignor of one-fourth to Charles E. Cartier and one-fourth to Edward M. Holland, Grand Rapids, Mich. Filed Aug. 9, 1919, Serial No. 316,289. Renewed Apr. 3, 1922. Serial No. 549,164. 6 Claims. (Cl. 144-258.)

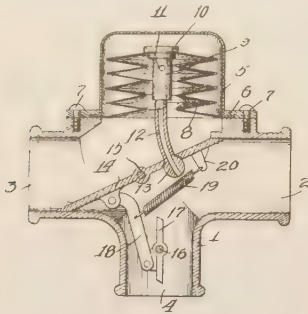


1. In combination, an upright support, a curved form secured at the upper end of the support, a plate slidably mounted on the support, a plurality of forms curved oppositely from the first form secured to the plate in vertical spaced relation, means tending to elevate the plate, means to operate the plate in a downward direction and means for controlling the extent of downward movement of the plate.

1,421,830. THERMOSTATIC DEVICE FOR COOLING SYSTEMS OF INTERNAL-COMBUSTION ENGINES. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Beneke & Kropf Manufacturing Company, a Corporation of Illinois. Filed Oct. 2, 1919. Serial No. 328,022. 8 Claims. (Cl. 236-34.)

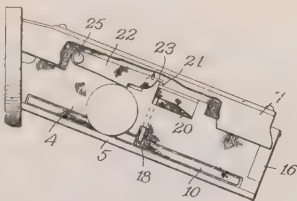
8. A device of the class described comprising valve means for controlling the flow of a fluid, a thermostat

mounted on one side of the valve means, and means connected to the thermostat and extending to the other side



of the valve means to afford a limited circulation therethrough and provide an operative connection between the thermostat and the valve means.

1,421,831. VENDING MACHINE AND THE LIKE. GEORGE C. REITH, Philadelphia, Pa., assignor, by mesne assignments, to National Sales Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1917. Serial No. 207,035. 6 Claims. (Cl. 194—102.)

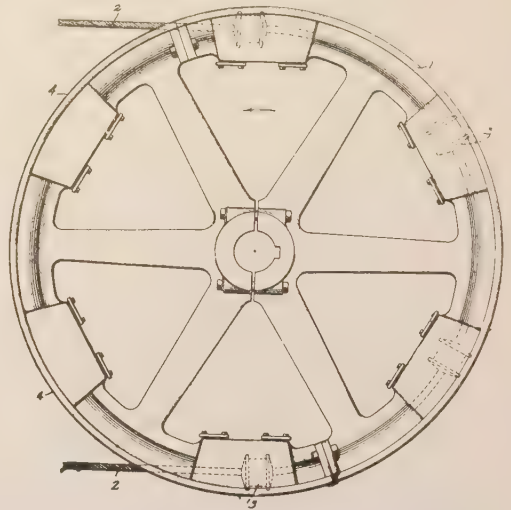


1. In an apparatus of the type specified, a coin chute having a track for the coin, a movable member normally positioned at one side of said track and movable transversely across the track for clearing the same, means whereby said member may be operated to clear said track by the insertion of a coin into said chute, a gate occupying normally an out-of-the-way position with relation to said track but movable to occupy an engaging position in the path of a coin moving over said track, and means for locking said gate in its engaging position whereby the gate may be released to occupy its out-of-the-way position by the approach to the gate of a coin of predetermined diameter, said movable member and gate being arranged whereby the gate may be moved into its engaging position by the operation of said movable member for clearing said track.

1,421,832. SPROCKET WHEEL. RALPH JAMES RILEY, Portland, Me. Filed Sept. 13, 1921. Serial No. 500,304. 4 Claims. (Cl. 74—42.)

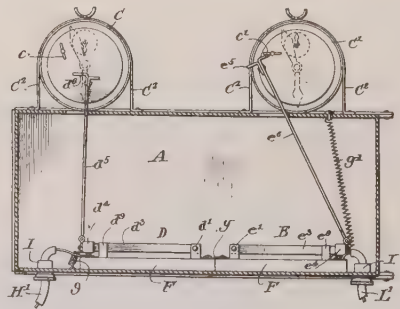
1. A sprocket wheel having pockets spaced apart formed in the periphery of the wheel and between said pockets an annular channel, said pockets having guideways formed therein and wearing shoes adapted to fit into said guideways, said wearing shoes being tapered

and each provided with a rectangular hole therethrough aligning with rectangular holes in the side faces of the



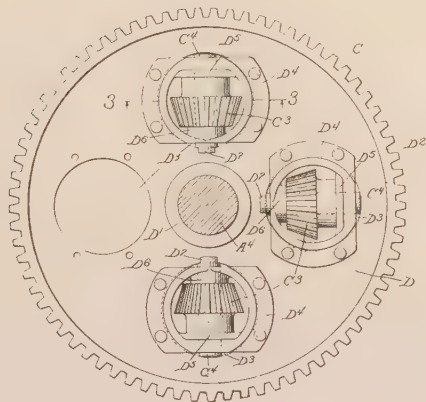
pocket for inserting a tapered pin therein for locking the wearing shoe in the guideways.

1,421,833. ELECTRIC TIME-SWITCH MECHANISM. ARTHUR R. ROSAMOND, Laramie, Wyo., assignor, by direct and mesne assignments, to Doris E. Soden, Kansas. Filed June 10, 1921. Serial No. 476,482. 1 Claim. (Cl. 200—39.)



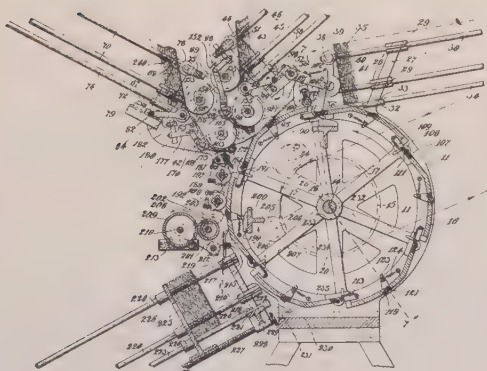
Electric time switch mechanism comprising two separately operable circuit controlling switches, a casing enclosing them, a piece of insulating fire-proof material on which the switches are mounted, two clocks mounted on the outside of the top of the casing and secured thereto, a spring associated with one of the switches and tending to open it, another spring associated with the other switch and tending to close it, a rod hinged to one of the switches and extending directly therefrom through the top of the casing and engaging the winding key of one of the clocks to hold said switch open and another similar rod hinged to the other switch and extending directly therefrom through the top of the casing and engaging the winding key of the other clock to hold the associated switch closed.

1,421,834. DIFFERENTIAL. JAMES ROSS, Laporte, Ind., assignor to Advance Rumely Company, Laporte, Ind., a Corporation of Indiana. Filed Mar. 9, 1921. Serial No. 450,814. 9 Claims. (Cl. 74—99.)



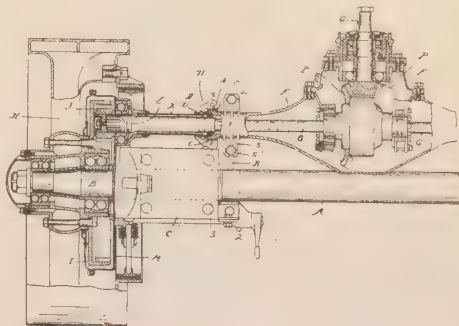
2. In a differential gear a plurality of separate pinion boxes flanged for attachment to the web of the gear, and pinions mounted for rotation in said boxes.

1,421,835. ENVELOPE FILLING AND CLOSING MACHINE. GEORGE F. RUSS, Jersey City, N. J. Filed Oct. 20, 1920. Serial No. 418,258. 25 Claims. (Cl. 93—6.)



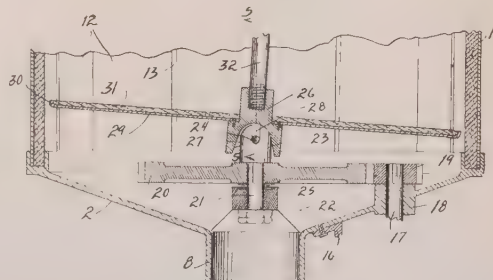
1. In a machine of the character described, the combination of a cylinder, means for rotating the same, an envelope holder, means for opening the flaps of the envelopes one at a time and laying the flap upon the periphery of the rotating cylinder, means attached to the cylinder for gripping such flap and drawing the envelopes from the holder, and means for inserting articles into the envelopes as it is drawn along.

1,421,836. VEHICLE AXLE. ALBERT W. RUSSEL, Detroit, Mich., assignor to Russel Motor Axle Company, Detroit, Mich., a Corporation of Michigan. Filed May 29, 1919. Serial No. 300,673. 12 Claims. (Cl. 180—73.)



1. In a vehicle axle, the combination with a dead or load-carrying axle member, of spring supports mounted thereon, a jack-shaft housing extending between said spring supports, and universal bearings for said housing on said spring supports.

1,421,837. VEGETABLE-PARING MACHINE. FRANK M. SCHAEFER, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to C. M. Bentley, Chicago, Ill., and one-half to Schaefer-De Lude-Wallace Company, a Corporation of Illinois. Filed Nov. 5, 1919. Serial No. 335,852. Renewed Dec. 7, 1921. Serial No. 520,692. 10 Claims. (Cl. 146—14.)

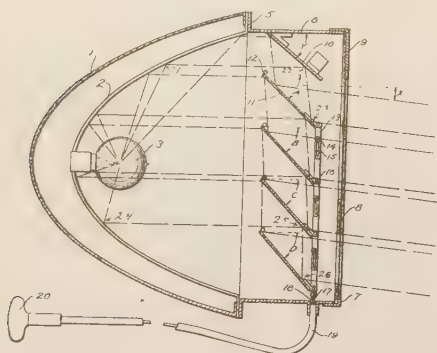


2. A vegetable paring machine comprising an abrasively lined casing, and an eccentrically controlled rotatable inclined abrasive disk removably disposed therein.

1,421,838. ILLUMINATING MECHANISM. DON W. SCHAEFFER, Dayton, Ohio. Filed Jan. 31, 1921. Serial No. 441,136. 2 Claims. (Cl. 240—45.2.)

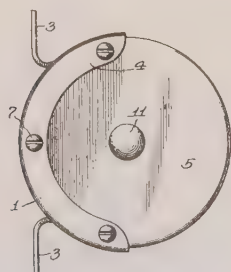
1. The combination with a headlight having a reflector and a source of illumination, of a series of deflecting and reflecting plates pivotally mounted at one edge forwardly of the source of illumination and arranged in spaced relation, extensible means connecting each plate to adjacent plates to permit the free edges of the plates to be adjusted relatively to one another, a stationary

deflecting plate arranged above the series of pivoted plates for constantly directing a portion of the light rays downwardly, and operating means associated with



said plates and extending from the same to permit said pivoted plates to be simultaneously swung about their pivot from a distance.

1,421,839. FISHLINE REEL. WILLIAM SCHMID, Bronson, Mich. Filed Jan. 24, 1921. Serial No. 439,354. 3 Claims. (Cl. 242—84.1.)

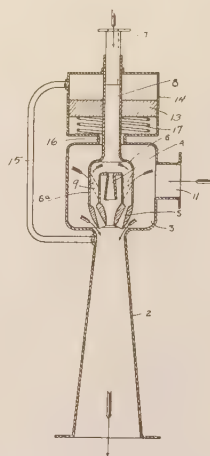


3. As a new article of manufacture, a substantially semi-cylindrical reel frame adapted for attachment to a fish rod and having end flanges in opposed relation affording reel head seats, said frame being formed from a semi-cylindrical member having end members cut away to provide the end flanges and the cylindrical wall cut and portions thereof bent outwardly to provide longitudinal reel seat engaging members.

1,421,840. FLUID TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Sept. 14, 1914, Serial No. 861,633. Divided and this application filed Apr. 16, 1920. Serial No. 374,371. 4 Claims. (Cl. 230—13.)

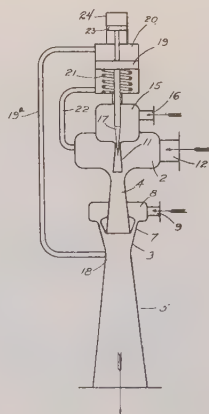
3. An ejector comprising a mixing chamber having an inlet for fluid to be translated, a diffuser communicating with the mixing chamber, a nozzle head cooperative with the inlet of the diffuser to vary the inlet of the diffuser, means responsive to the pressure of fluid in the mixing

chamber to move the nozzle head to vary the inlet area, said nozzle head having a central diffusing nozzle and an annular series of converging diffusing nozzles surround-



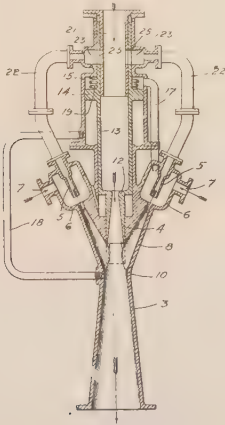
ing and below the central diffusing nozzle, and said head also having ports for fluid to be translated cooperative with the central diffusing nozzle.

1,421,841. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,630. Renewed Dec. 30, 1921. Serial No. 526,029. 20 Claims. (Cl. 230—13.)



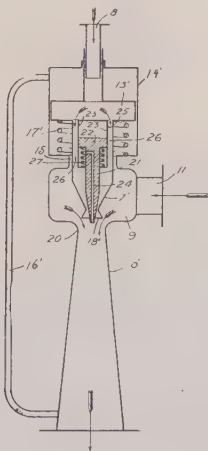
1. In combination in an apparatus of the character described, a chamber to which medium to be compressed is delivered, an ejector device communicating with said chamber for receiving medium therefrom and for compressing it to a relatively high pressure, means for delivering impelling fluid to said device for accelerating the medium of said chamber before delivering it to said device and for delivering a stream of filler fluid to the diffuser of said device, and means for varying the amount of filler fluid delivered in accordance with variations in the amount of fluid to be compressed.

1,421,842. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,631. Renewed Dec. 30, 1921. Serial No. 526,030. 20 Claims. (Cl. 230—13.)



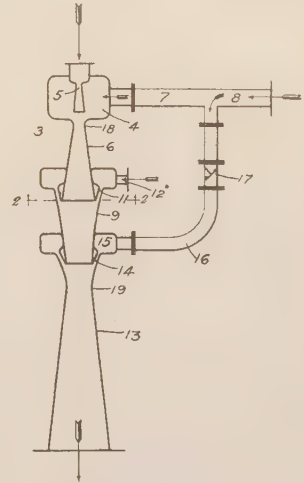
1. In combination in an apparatus of the character described, a diffuser, a chamber communicating with the diffuser receiving medium to be expelled, a main delivery nozzle for delivering expelling fluid through the diffuser, an accelerating nozzle for delivering expelling fluid through the diffuser, and means responsive to variations in the amount of medium entering the chamber for controlling the operation of said main nozzle and the delivery of fluid through said accelerating nozzle.

1,421,843. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,633. Renewed Dec. 30, 1921. Serial No. 526,031. 21 Claims. (Cl. 230—13.)



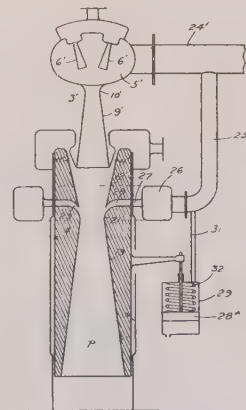
1. In combination in an apparatus of the character described, a diffuser communicating with a suction port of the apparatus, means for delivering a jet of fluid through the diffuser for translating medium entering the port through the diffuser, and means responsive to variations in the amount of medium entering the port for varying the position of the fluid delivery means relatively to the diffuser.

1,421,844. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,634. Renewed Dec. 30, 1921. Serial No. 526,032. 15 Claims. (Cl. 230—13.)



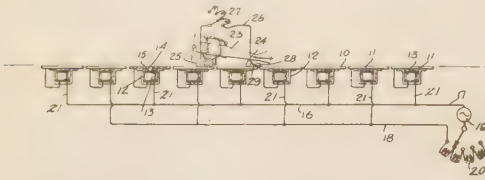
1. In combination in an apparatus of the character described, a plurality of ejectors located in series, a passage from which medium is to be ejected by said ejectors, and means responsive to a variation in the amount of medium to be translated for causing said ejectors to operate in series or in parallel in receiving fluid from said passage.

1,421,845. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 14, 1914, Serial No. 861,635. Renewed Dec. 30, 1921. Serial No. 526,033. 15 Claims. (Cl. 230—13.)



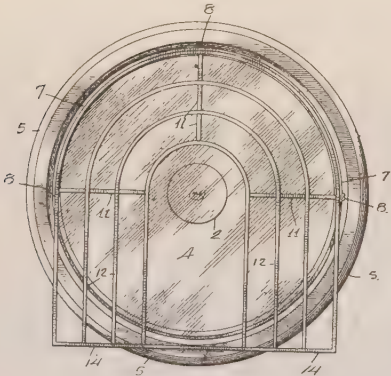
1. In combination in an apparatus of the character described, an ejector for expelling fluid, a second ejector receiving the impelling and the impelled fluid from the first ejector, and means responsive to pressure variations within the suction chamber of the first ejector for controlling the delivery of impelling fluid to the second ejector.

1,421,846. APPARATUS FOR AIRCRAFT. FREDERICK ERNEST SCHOLFIELD, Waterford, Conn. Filed Apr. 21, 1921. Serial No. 463,159. 3 Claims. (Cl. 244-2.)



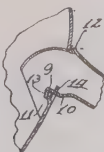
1. An apparatus for facilitating the launching, mooring or landing of aircraft, comprising a metallic platform, metallic shoes on the aircraft and electromagnetic means for setting up a braking force therebetween when said metallic members are brought in close contact, in combination with means located on the aircraft for rendering said means respectively active or inactive.

1,421,847. NONGLARING ATTACHMENT FOR HEADLIGHTS. CHARLIE SCHOPKE, San Francisco, Calif. Filed June 2, 1921. Serial No. 474,518. 1 Claim. (Cl. 240-48.4.)



A non-glaring attachment for motor vehicle headlights comprising a plurality of semi-circular reflecting members arranged on the upper portion of said headlight and parallel to the axis thereof to reflect upper diverging rays from said headlight onto the ground in advance thereof, said members having vertically disposed depending portions arranged to reflect lower diverging rays back towards the plane of the axis of said headlight; a ring detachably mounted between the front of the headlight and the lens rim thereof and having a semi-circular flange projecting through said rim; and means for detachably connecting said members to said flange.

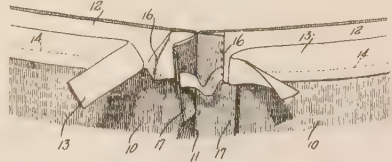
1,421,848. HANDLE JOINT. WESLEY E. SEASTROM, Dubuque, Iowa, assignor to Schmid Manufacturing Company, Dubuque, Iowa, a Copartnership consisting of B. C. Schmid and F. W. Schmid. Filed Aug. 30, 1920. Serial No. 406,992. 10 Claims. (Cl. 16-112.)



1. The combination with a base member having spaced openings of different sizes therein, of a handle engaged

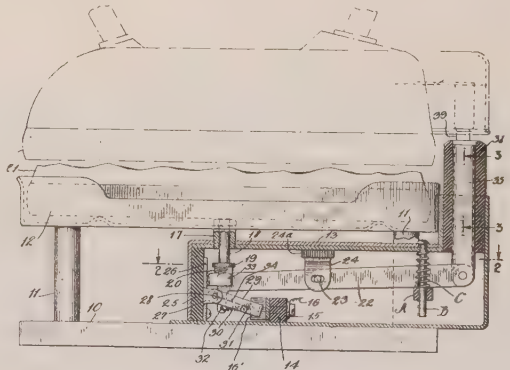
through the largest of said openings, and extensions on said handle engaged through the smaller openings and bent downwardly inside the base member.

1,421,849. GARMENT CONSTRUCTION. JOSEPH SEEWALD, Brooklyn, N. Y. Filed Jan. 10, 1922. Serial No. 528,161. 2 Claims. (Cl. 2-142.)



2. In a waistband construction for trousers, a pair of lining strips secured within the waistband of the trousers each having a plait formed therein adjacent the rear end thereof for receiving between the folds of said plait the upper portion of the outer edge of the material defining the rear seam of the trousers, and attaching means for securing the rear edge of the plait to the rear seam of the trousers.

1,421,850. STAND AND AUTOMATIC SWITCH FOR ELECTRIC IRONS. ART J. SHIRK and SOLOMON COHEN, New York, N. Y., assignors to Abraham S. Iserson, New York, N. Y. Filed Dec. 16, 1919. Serial No. 345,328. 20 Claims. (Cl. 219-23.)

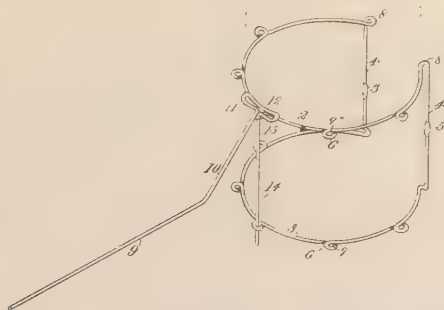


1. In combination with an electric sad iron having contacts thereon, an electric heating stand having electrical terminals for said contacts adapted to make connection therewith when the iron is upon the stand, means adapted to be operated by the weight of the iron when placed in position on the stand to connect said terminals to the electric supply and means whereby said terminals are disconnected from the supply when the iron is moved from the stand and before said contacts are moved out of contact with said terminals.

1,421,851. CLOTHES DRIER. SAMUEL SKELLY, Alameda, Calif. Filed Oct. 17, 1921. Serial No. 508,323. 8 Claims. (Cl. 126-341.)

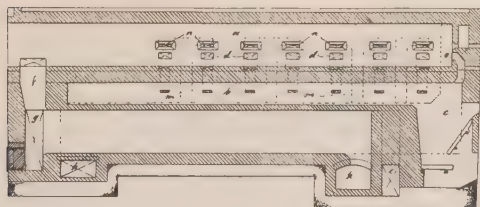
1. A clothes drier comprising a supporting frame constructed of upper and lower substantially parallel strands of spring wire united at their ends by integral extensions disposed at right angles therefrom and connected at their meeting ends to provide an oblong substantially rectangular frame, said frame being bent into a substantially circular band with the frame ends lying adjacent to each other for frictionally engaging a substantially circular support, said upper and lower frame

strands being outwardly bent or looped at corresponding intervals to provide a plurality of vertically disposed pairs of spring eyes, and a clothes supporting arm comprising a horizontal portion and a vertical portion con-



nected by a loop forming a supporting head, said vertical portion adapted for reception within one of said pairs of eyes with the supporting head resting on the upper strand.

1,421,852. FURNACE. ALFRED SMALLWOOD, London, England. Filed Mar. 8, 1920. Serial No. 364,266. 1 Claim. (Cl. 263—15.)

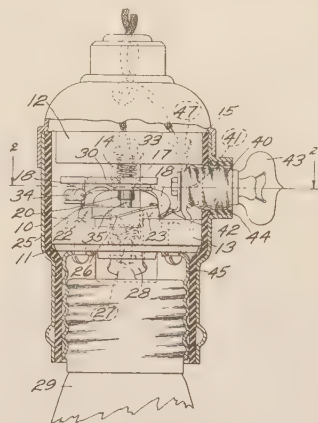


a furnace, including a gas generator, a green gas flue communicating with said gas generators, a working chamber above said flue, a recuperator below said flue, a plurality of conduits extending from said flue to said working chamber and including individually regulable ports, discharge means connecting said working chamber and recuperator, air flues located on each side of the furnace and passing through said recuperator, and flues each extending vertically from said air flues to pairs of individually regulable ports admitting to the working chamber.

1,421,853. PULL-SOCKET SWITCH. RAYMOND D. SMITH, Boston, Mass., assignor to Shawmut Machine Works, Inc., a Corporation of Maine. Filed Oct. 27, 1916, Serial No. 128,132. Renewed Sept. 30, 1921. Serial No. 504,494. 16 Claims. (Cl. 173—336.)

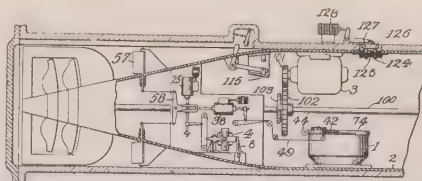
5. In a pull-socket having supply credit terminals and including a body structure comprising top and bottom insulating blocks secured in spaced relation by conductive brackets extending therebetween, the combination with said structure, of a pawl-and-ratchet-actuated switch mechanism mounted between said blocks and including an oscillatory driving device with means to limit its stroke to a partial rotation and resilient means tending to restore it to a definite position at one end of the designed stroke; a rotatable conductive, double-ended current-switching member pivoted to be rotated by said device; a plurality of circuit contacts arranged to be successively engaged by said member in diametrically opposite pairs, with insulating supports for said contacts arranged cooperatively with said member to restrict retrogressive movement thereof between successive contacts; a main two-terminal lamp receptacle depending from the lower surface of said bottom insulating block; an auxiliary two-terminal plug receptacle carried by said body structure;

insulated fixed circuit connections between one terminal of each of said receptacles and a common supply circuit terminal; and separate circuit connections between the other terminal of each of said receptacles and members of different pairs of said stationary contacts together with insulated fixed circuit connection between the related mem-



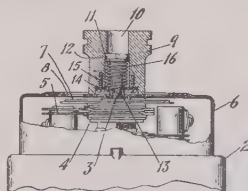
bers of said last mentioned pairs and another supply circuit terminal;—more than one of the said pairs of contacts being successively disposed within the travel of said member caused by a full stroke of said device, whereby different connection of said receptacles to the supply circuit may be had through a full or partial stroke respectively of said device.

1,421,854. GYROSCOPIC APPARATUS FOR TORPEDOES. ELMER A. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 15, 1916. Serial No. 84,292. 22 Claims. (Cl. 114—24.)



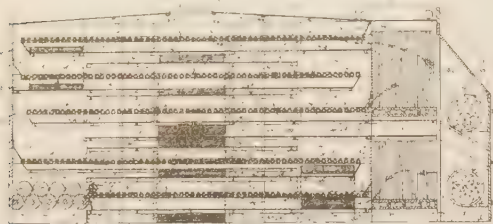
1. In an automobile torpedo, the combination with gyroscopic steering gear therefor, of means for stabilizing the reference plane, from which the steering is controlled, about the fore and aft axis of the torpedo.

1,421,855. ELECTRIC SWITCH. CLARENCE C. STIRLING, Hartford, Conn. Filed Jan. 5, 1921. Serial No. 435,062. 8 Claims. (Cl. 200—172.)



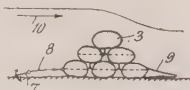
1. An electric snap-switch button, an internally-threaded screw rotative in the button, to fit the external threads of the spindle of the switch, and a spring coiled around the screw, one end of the spring being fixed with respect to the button and the other end being free of the button whereby the spring will be closed when the screw is turned in one direction and opened when turned in the opposite direction.

- 1,421,856. DRYING MACHINE. GEORGE STONE, North Andover, Mass., assignor of one-half to M. T. Stevens & Sons Company, North Andover, Mass., a Corporation of Massachusetts. Filed Dec. 15, 1921. Serial No. 522,491. 14 Claims. (Cl. 34—12.)



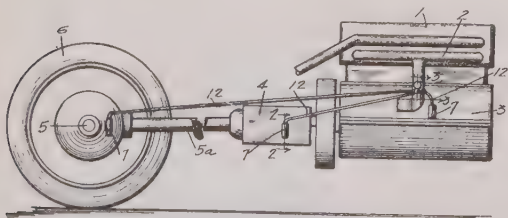
1. A drying-machine comprising a plurality of horizontal rows of conveying rolls arranged at different heights, and adapted to conduct material in a sinuous course through the machine, the rolls of each row being separated by air spaces; air-forcing and heating apparatus; and independent air conductors under said rows connected with said apparatus and adapted independently to conduct air under the rolls of each row, the conducted air being exhausted or discharged upwardly through said spaces into air chambers above the rolls, and utilized to both dry and lift material in transit on the rolls, each row of rolls and the accompanying conductor constituting a conveying and drying unit.

- 1,421,857. METHOD OF CONSTRUCTING SUBAQUEOUS CONCRETE STRUCTURES. JOHAN STÖRE, Christiania, Norway. Filed May 27, 1920. Serial No. 384,518. 11 Claims. (Cl. 61—46.)



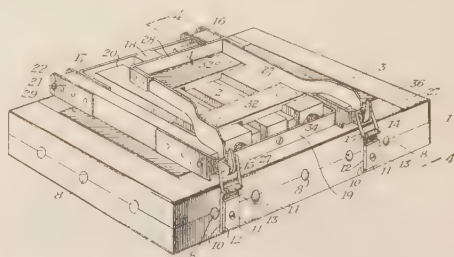
1. The herein described method of forming subaqueous structures, which consists in submerging a chamber below the surface of the water and thereafter feeding casting material into such chamber to inflate the same.

- 1,421,858. VACUUM OILING SYSTEM. FRANK W. THOMAS and MAYO D. KIMBALL, Pasadena, Calif. Filed Apr. 23, 1921. Serial No. 463,789. 2 Claims. (Cl. 184—55.)



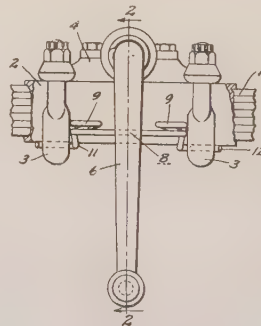
1. The combination with a motor vehicle having a crank case, a transmission case and a differential gear case, of tubular receptacles connected to the crank case, the transmission case, and the differential gear case at points above the oil levels, baffles in the tubular receptacles, conduits connected to the upper ends of the tubular receptacles, a header connected to the intake manifold of the engine and to the opposite ends of the conduits from the tubular receptacles, a sleeve valve in the header, a tubular stem extending from the sleeve valve into the intake manifold, and a swinging abutment upon the inner end of the tubular stem in the passage of the intake manifold.

- 1,421,859. PRINTING FRAME. JOHN D. THOMPSON, Rochester, N. Y. Filed Oct. 17, 1918. Serial No. 258,659. 8 Claims. (Cl. 95—77.)



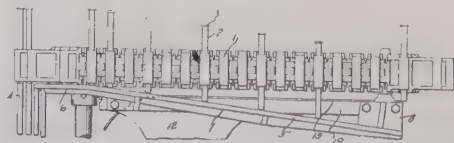
5. In a photographic printing apparatus, a frame, a back hinged thereto along one edge and carrying a pressure member which is adapted to fit within the frame when the back is swung over the frame, and a plurality of loops along the opposite edge of the frame, a plurality of locking and tensioning latches on the back and adapted to engage said loops, and a common handle for actuating said latches simultaneously.

- 1,421,860. CRANK HOLDER. MARTIN THU, Bakersfield, Calif. Filed Mar. 2, 1921. Serial No. 449,140. 1 Claim. (Cl. 74—33.)



A crank holder comprising a wire having a central portion bent to form a notch adapted to receive a crank arm, second portions extending outwardly and backwardly from the central portion, said second portions being coiled, third portions extending backwardly from the second portions, fourth portions extending downwardly from the third portions, fifth portions extending backwardly from the fourth portions, and sixth portions extending outwardly from the fifth portions, the sixth portions forming pintles adapted to be mounted in the clips engaging the front spring of an automobile so that the holder may swing up and down into and out of engagement with the crank arm.

- 1,421,861. PIN GUIDE. GEORGE C. L. TISCH, Elizabeth, N. J., assignor to Tisch Machine & Tool Works, Elizabeth, N. J., a Corporation of New Jersey. Filed Dec. 1, 1921. Serial No. 519,219. 4 Claims. (Cl. 66—12.)

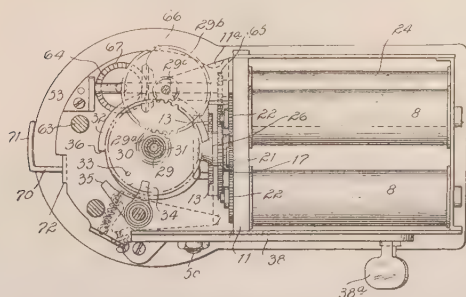


1. A pin guide for knitting machines comprising a plate having an inclined flat guiding section, and a straight guiding section merging therein, said plate being of such a length as to engage substantially half of the pins of said knitting machine at one time.

1,421,862. PROCESS OF COLLECTING AND PURIFYING MINERALS. WALTER E. TRENT, Washington, D. C., assignor to Trent Process Corporation, Washington, D. C., a Corporation of Delaware. Filed Apr. 9, 1920. Serial No. 372,447. 16 Claims. (Cl. 83—85.)

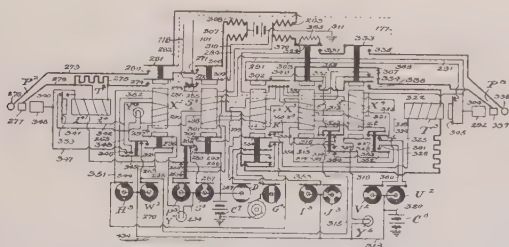
1. The process of collecting minerals suspended in water, consisting in mixing with the mineral a hydrocarbon oil and a comminuted carbonaceous material, in agitating the mixture until the mineral comminuted carbonaceous material and liquid hydrocarbon oil agglomerate, substantially free from froth and in then separating the agglomerated mass from the water.

1,421,863. LOCK FOR NOTCHING SHEARS OF MEASURING MACHINES. DOUGLAS TURNER, St. Louis, Mo., assignor to Measuregraph Company, St. Louis, Mo., a Corporation. Filed May 5, 1920. Serial No. 379,172. 9 Claims. (Cl. 33—130.)



1. In a machine of the kind described, the combination of a measuring roller, indicating mechanism actuated thereby for measuring fabric pulled past the measuring roller, marking means independent of the indicating mechanism, and constructed to be operated at will for marking the fabric to indicate the point where it is to be cut off, locking means constructed to prevent said marking means from being actuated, said locking means being driven from the measuring roller in a definite relation to the indicating means and having means to permit the actuation of the marking means when the indicating mechanism is in any one of a plurality of predetermined positions.

1,421,864. TELEPHONY. HUBERT SYDNEY TURNER, Washington, D. C. Filed Aug. 12, 1915. Serial No. 45,232. 76 Claims. (Cl. 179—58.)



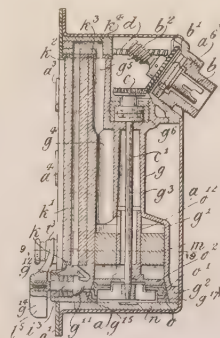
1. A telephone exchange system including telephone lines extending from substations to an exchange, link connectors to connect said substations, a relay for each of said link connectors, a source of intermittent current, means whereby current from said source initially energizes said relay when one of said link connectors is connected to an idle line, means other than said source to maintain said relay energized thereafter, and means to prevent said energization when said link connector is connected to a busy line.

2. A telephone exchange system including telephone lines extending from substations to an exchange, link connectors to connect said substations, a relay for each of said link connectors, a source of intermittent current, means whereby current from said source initially energizes said relay when one of said link connectors is connected to an idle line, and means to prevent said energization when said link connector is connected to a busy

line, a low resistance shunt, said last mentioned means comprising means for intermittently connecting said shunt around said relay in synchronism with the impressions of intermittent current through said relay from said source, said shunt being connected by the previous connection of another such link connector to the same line.

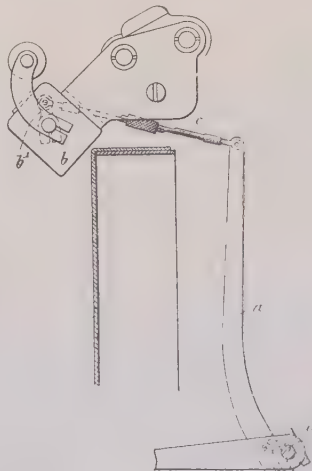
42. A telephone exchange system including telephone lines extending from substations to an exchange switchboard having a line signal individual to each substation line, a pilot signal individual to each operator's position at said switchboard and operated thereat upon the energization of one or more of said line signals of the lines assigned to said position for answering, means to operate said pilot signal at another operator's position, and means at said second mentioned position operative when said last mentioned pilot signal is operated thereat to operate the pilot signal individual to said second mentioned position at still another operator's position.

1,421,865. TACHOMETER. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Co., Hartford, Conn., a Corporation of Connecticut. Filed Mar. 23, 1921. Serial No. 454,646. 10 Claims. (Cl. 264—19.)



1. In an instrument of the character described, the combination of a main frame having an open base, two separate members fitted within the base and chambered to form a paddle wheel chamber, one of said members having formed in its face adjacent the other member a radial channel and a circumferential channel, and means to retain the said members in place.

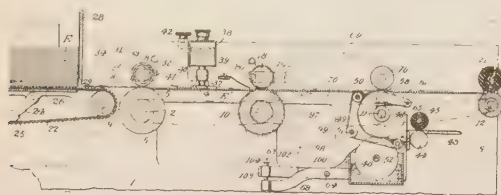
1,421,866. TURNBUCKLE. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 8, 1921. Serial No. 506,288. 2 Claims. (Cl. 85—36.5.)



1. A turnbuckle comprising two parts flattened to cooperate with each other and threaded reversely, and a

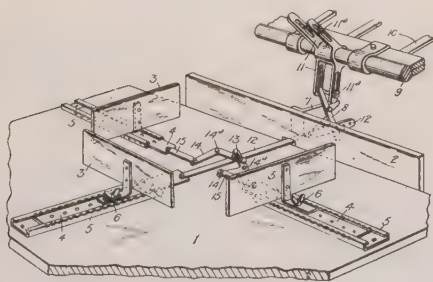
cross threaded nut engaging the threaded portions of both parts, the nut being split longitudinally so that it may fit tightly on said threaded portion.

- 1,421,867. MACHINE FOR SEALING AND STAMPING ENVELOPES. MAXWELL VIDAYER, New York, N. Y. Filed June 30, 1917. Serial No. 177,978. Renewed May 25, 1922. Serial No. 563,716. 16 Claims. (Cl. 216—3.)



4. In a machine of the class described in combination, feeding mechanism for supplying envelopes to said machine, means for forwarding an envelope through said machine comprising several sets of rolls located in advance of one another so that an envelope is engaged by each set in advance before it leaves a preceding set of rolls, said feeding mechanism being automatically controlled by the engagement of an advancing envelope with said first set of rolls, and means co-acting with said first set of rolls, and means co-acting with said several sets of rolls for moistening and sealing the flap of the envelope and affixing a stamp to said envelope as it passes through said rolls.

- 1,421,868. SHEET-STRAIGHTENING APPARATUS. PAUL VOLKMER, Auckland, New Zealand. Filed Oct. 21, 1920. Serial No. 418,365. 3 Claims. (Cl. 271—89.)

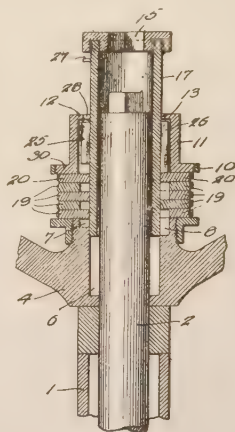


1. In apparatus of the class described, movable gage elements and means for operating said movable gage elements consisting in a reciprocable main bar arranged at right angles to the axis of the flyer, one of the movable gage elements being connected to said main bar, pivoted crank arms operated directly by the said main bar and to each of which one of the side movable gage elements is connected, a pivoted lever connected to the main bar, and a double armed bell crank mounted on the flyer axis and arranged to positively strike said lever in each direction of rotation.

- 1,421,869. PROCESS OF MAKING HYDROCHINON. HAROLD VON BRAMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 28, 1920. Serial No. 392,417. 12 Claims. (Cl. 260—154.)

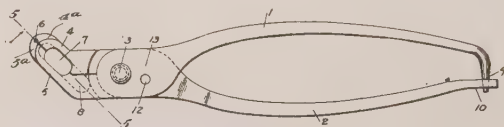
6. In the process of making hydrochinon, the step of reacting on a paradihalogenbenzolsulfonate with a metallic hydroxid until the hydrochinon salt of said metal is produced, and recovering hydrochinon from the reaction mixture.

- 1,421,870. LOCKING DEVICE FOR AUTOMOBILE STEERING MECHANISMS. ERNEST L. B. VON DIEZELSKI, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,649. 9 Claims. (Cl. 70—128.)



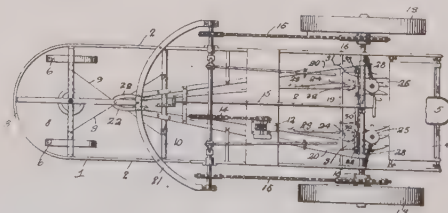
1. In a device of the class described, an open ended steering column, a steering wheel journaled on the open end of said steering column, a circular casing carried on the upper face of the central portion of said steering wheel, a steering post extending upward within said steering column and having its free end projecting into the plane of the upper end of said casing, locking members within said casing, and a locking sleeve surrounding the free end of said steering post and adapted for vertical movement within said casing and with respect to said steering element and to said locking members.

- 1,421,871. TOOL. CHRISTIAN H. WAGNER, Tiffin, Ohio. Filed Apr. 16, 1921. Serial No. 461,742. 1 Claim. (Cl. 81—3.)



A tool embodying a pair of pivotally connected members, handles at one end thereof, and a pair of offset jaws located at the opposite end, said jaws having transversely arranged openings therethrough and providing inwardly extending gripping noses, and the said openings extending from the gripping noses to the inner ends of the offset to provide an open-ended longitudinally-disposed recess.

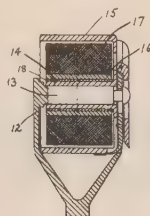
- 1,421,872. CULTIVATOR. MAURA F. WATKINS, Star Lime Works, Ky. Filed Nov. 4, 1918. Serial No. 261,052. 1 Claim. (Cl. 97—37.)



In a cultivator, a frame, an arch bar axle supporting the rear end of said frame, an arch bar for carrying cultivator elements positioned adjacent the first mentioned arch bar and having its lower ends turned outwardly, cultivator elements supporting members secured beneath said lower ends and extending rearwardly and forwardly of

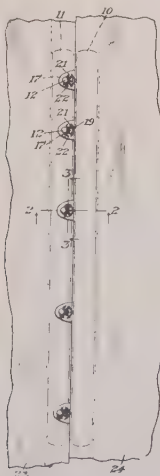
said lower ends, pull bars each having one end pivoted to the forward part of the frame and its other end pivoted to the forward end portion of a respective supporting member, lift rods connected to the second arch bar adjacent its extremities, pivoted lift levers each having the usual connection with a respective lift rod, blade carrying yokes each connected to the rear end of a respective cultivator element supporting member and springs each connecting one of said yokes with the arch bar axle, said springs being arranged to hold the second arch bar and its connecting parts yieldably in a position central of the arch bar axle.

1,421,873. ADJUNCT FOR SEWING-MACHINE SHUTTLES. LUCIUS E. WEAVER, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed Feb. 28, 1921. Serial No. 448,689. 1 Claim. (Cl. 112—233.)



A bobbin-controlling adjunct for a bobbin case having a central post; said adjunct comprising a split sleeve of thin resilient material having an opening in one side, and adapted to fill an annular space between said post and a bobbin core; and a resilient tongue joined to the sleeve at one end of said opening, normally inclined outward from the sleeve, and adapted to be pressed into said opening, the sleeve being normally of smaller diameter than said post, and adapted to be expanded by and frictionally hug the latter to resist movement of the sleeve on the post, the sleeve, when expanded by the post, being adapted to closely fit the internal surface of a bobbin core, and the tongue being adapted to be forced by the core into said opening, and to exert a yielding outward rotation-resisting pressure on the core.

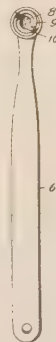
1,421,874. CLASP. WILLIAM G. WEBER, Ridgefield Park, N. J., assignor to Kops Bros., New York, N. Y., a Firm. Filed Sept. 15, 1921. Serial No. 500,884. 3 Claims. (Cl. 24—222.)



1. A clasp comprising a stud having a head, and a socket member having a slot therein with ribs on both

sides of the slot intermediate of the ends thereof and having a continuously rounded surface sloping into the body of the socket member.

1,421,875. TOOTHBRUSH. WILLIAM LLOYD WEBSTER, New York, N. Y. Filed Oct. 26, 1921. Serial No. 510,577. 3 Claims. (Cl. 15—210.)



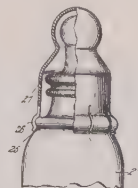
1. A holder for the rubbing material of a tooth-brush, having a socket provided with interrupted screw threads for retaining the rubbing material in the socket.

1,421,876. CONNECTING RING. EDWARD L. WEED, Providence, R. I., assignor to Potter & Buffinton Company, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 12, 1921. Serial No. 451,852. 2 Claims. (24—236.)



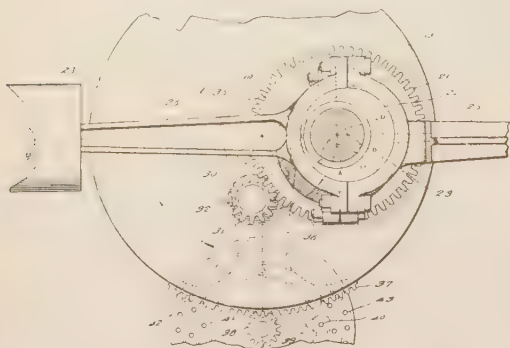
2. A ring of the character described having a spur with one end connected to one end of the ring at the joint to extend inwardly therefrom the opposite end of the ring being grooved to snap over the body of the spur to serve as a detent for the ring ends against too readily opening at the joint.

1,421,877. NURSING BOTTLE AND NIPPLE PROTECTOR. WILLIAM WEISSHEIER, Brooklyn, N. Y. Filed June 19, 1920. Serial No. 390,101. 1 Claim. (Cl. 215—11.)



A nursing bottle, comprising a bottle having a neck and provided with an annular ring adjacent the juncture of the neck and body of the bottle, the neck being adapted to carry a nipple, and a cap having an enlarged lower portion and an annular portion to receive the ring of the bottle and provided with vertical slits extending from its end a short distance to permit the cap to snap over said ring, the lower enlarged portion extending to about the top of the bottle neck, and the reduced upper portion being approximately of the shape of a nipple.

1,421,878. INTERNAL-COMBUSTION ENGINE. GRANVILLE G. WESTERFIELD, Indianapolis, Ind. Filed Apr. 19, 1920. Serial No. 374,934. 12 Claims. (Cl. 123—197.)

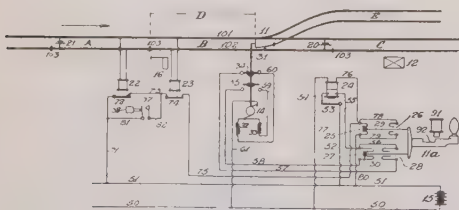


1. In an internal combustion engine, the combination of a cylinder, a piston movable therein, a crank shaft having a crank pin, an eccentric mounted on said crank pin and adjustable around the axis thereof, means for rotating said eccentric in space about the crank pin axis at a different angular speed from that of the crank shaft and so that it normally arrives at the same position at the end of each alternate revolution of the crank shaft, a connecting rod connecting said eccentric to said piston, and means for adjusting said eccentric about the axis of said crank pin while the engine is in operation to vary the position of the piston in the cylinder at the end of the compression stroke thereof.

1,421,879. ENGINE FUEL. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,396. 7 Claims. (Cl. 44—9.)

4. A fuel comprising from 90% to 92% of kerosene and thyl acetate.

1,421,880. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. GILBERT C. WHITNEY, New York, N. Y. Filed May 21, 1919. Serial No. 298,779. 20 Claims. (Cl. 246—136.)

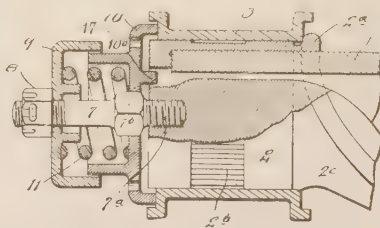


19. In a power operated switch operating system, an electrical element controlled by a track circuit and maintained energized by the current flow in the switch circuit.

1,421,881. BRAKE BEAM. CHARLES HAINES WILLIAMS and EDWIN G. BUSSE, Chicago, Ill., assignors to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 28, 1921. Serial No. 488,212. 7 Claims. (Cl. 188—223.)

7. The combination with a trunnion member of a brake beam, of a brake head mounted thereon, a locking member designed to marginally and directly engage said

brake head, and exteriorly arranged yielding means which exerts pressure against the outer face of said locking



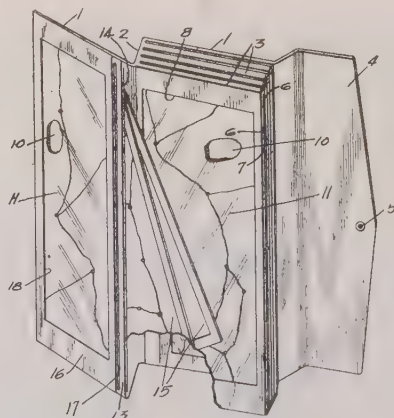
member, thereby permitting the head to move longitudinally along the trunnion, said locking member frictionally holding the head in rotatably adjusted position.

1,421,882. SHELL. HENRY E. WINANS, Belleville, Ill. Filed Jan. 31, 1920. Serial No. 355,297. 8 Claims. (Cl. 102—15.)



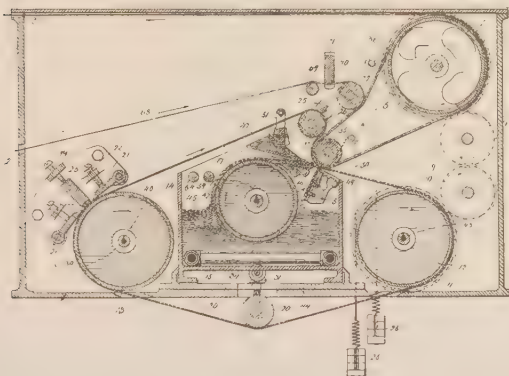
6. A shell containing a shot-driving wad, a shot-driven member, a body of shot between said shot-driving wad and shot-driven member, and means for connecting said shot-driving wad to said shot-driven member, said means comprising a wire-like spear passing through the body of shot and having a head engaging the outer face of the shot-driven member and also having a pointed end provided with a barb anchored in said shot-driving wad.

1,421,883. MAP HOLDER. WILLIAM W. WRIGHT, Hollywood, Calif. Filed Apr. 23, 1921. Serial No. 463,759. 1 Claim. (Cl. 129—20.)



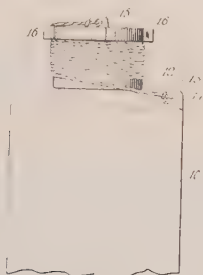
A holder comprising a pair of cover leaves and a plurality of intermediate leaves, each of said intermediate leaves including side walls forming a pocket between the same adapted to receive a map or the like, said walls having window openings therein for displaying said maps, transparent sheets covering said maps and received with the same in said pockets and one of the cover sheets being provided with a pair of pockets adapted to receive maps and one of said latter pockets having a window opening that is covered by a transparent sheet.

1,421,884. PATTERN-TRANSFER MACHINE. PAUL YOHNS, New York, N. Y. Filed July 19, 1919. Serial No. 312,089. 7 Claims. (Cl. 101—122.)



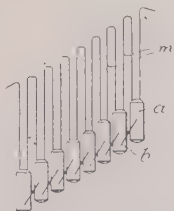
1. A pattern transfer machine comprising a perforated master pattern, rolls supporting the same, and means to maintain the rolls and consequently the master pattern in a heated condition, whereby printing fluid upon lodging in the perforations is heated and caused to flow.

1,421,885. SCREW CAP. JOHN M. ABRAMS, Brooklyn, N. Y. Filed Dec. 13, 1921. Serial No. 521,985. 4 Claims. (Cl. 215—99.)



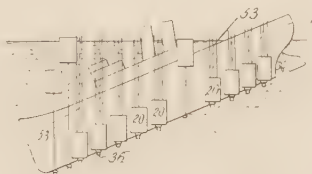
1. A container having a threaded neck portion, and a screw cap for detachable engagement with the outer end of the neck, and a flexible member connecting said cap with the container and adapted to be wound about the cap.

1,421,886. FRACTIONATING APPARATUS. HUGH LOGIE ALLAN, Ayr, Scotland. Filed Sept. 15, 1919. Serial No. 324,023. 6 Claims. (Cl. 196—5.)



1. Fractionating apparatus comprising in combination a plurality of rectifiers having each an upper and a lower compartment with vertical tubes connecting said compartments, condenser pipes connecting the upper compartments in series, and reflux pipes connecting each upper compartment with the lower compartment of the next lower rectifier.

1,421,887. METHOD OF AND APPARATUS FOR RAISING SUNKEN SHIPS. ALEXANDER ALLAN, Middletown, R. I. Filed Feb. 7, 1921. Serial No. 443,192. 7 Claims. (Cl. 114—52.)



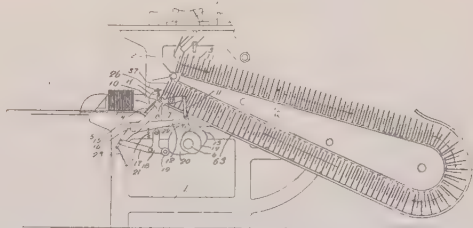
1. The method of salvaging a sunken vessel which comprises accurately locating the vessel, establishing guide-ways relative thereto, lowering pontoons upon said guide-ways, positioning them in operative relation to the vessel and raising the vessel by controlling the buoyancy of the pontoons, all operations being controlled from the surface of the water.

1,421,888. PROCESS FOR WEATHERPROOFING CLAY. WILLIAM H. ALLEN, Detroit, Mich. Filed Sept. 6, 1921. Serial No. 498,879. 6 Claims. (Cl. 91—68.)

2. The process of destroying the capillarity of the surface of a body of unbaked clay which consists in depositing calcium silicate in the interstices thereof by chemical action.

4. The process of coating clay which consists in chemically destroying its capillarity and then applying a weather resistant medium.

1,421,889. GRIPPER MECHANISM FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y., a Corporation of New York. Filed July 12, 1920. Serial No. 395,666. 12 Claims. (Cl. 271—82.)

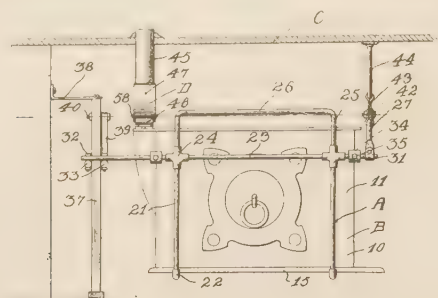


1. A gripper device for envelope-making machines comprising gripping fingers mounted to move from one position to another and to be operated into gripping and non-gripping positions by striking obstructions at opposite ends of its path of movement, stop members constituting obstructions arranged at opposite ends of said path of movement to be engaged by said gripping fingers, and each of said stop members being pivotally mounted and having its striking surface portion lying in a plane eccentric to the pivotal axis of the stop for the purpose set forth.

1,421,890. SELF-LEVELING STOVE FOR SHIPS. GEORGE W. BAKER, Jacksonville, Fla. Filed Apr. 29, 1921. Serial No. 465,535. 5 Claims. (Cl. 126—24.)

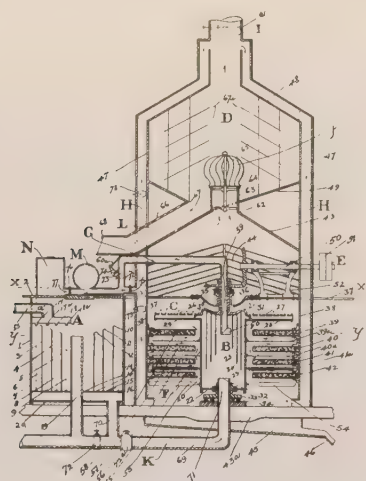
1. The combination with a galley stove, of a cradle therefor including transversely extending bars arranged under the stove, uprights secured to the terminals of the

bars, longitudinally extending side bars secured to the uprights, rigid supports secured to the ship, means pivot-



ally connecting the side bars with the rigid supports, and adjustable clamps carried by the side bars arranged to engage the stove.

1,421,891. SEWAGE PURIFIER. JOHN P. BALL, Chicago, Ill. Filed June 23, 1921. Serial No. 479,741. 16 Claims. (Cl. 71-8.)

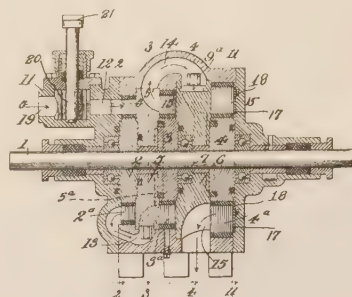


1. A system for purifying sewage comprising in combination, a sedimentation chamber containing a plurality of concentric compartments, an annular overflow weir communicating between each compartment at successive lower planes, a revoluble mounted dewatering chamber, a cylindrical filter chamber, surrounding said dewatering chamber, and a dust collecting drum superimposed upon said filter chamber, means for supplying sludge to the sedimentation chamber, communicating means for supplying sludge from the sedimentation chamber to the dewatering chamber, discharge means from said dewatering chamber into said filter chamber, aerating means through said filter chamber, and means for causing an upward current of air to flow through said filter, a sinuous current passage for extracting the particles carried in said filter current, discharge means for collecting said particles into said dust drum, and means affording an outlet passage for material collected in such drum.

1,421,892. ROTARY STEAM ENGINE. CARL OSCAR BANER, San Francisco, Calif. Filed Nov. 23, 1920. Serial No. 426,066. 3 Claims. (Cl. 253-70.)

1. An engine of the character described, comprising a housing, a shaft rotatable therein, rotors mounted on the shaft and a stationary steam chest mounted between each two rotors, V-shaped blades on each rotor presenting symmetrical working faces in both directions, sets of steam passages in the steam chest on opposite sides communicating with adjacent rotors in opposite directions, the steam passages in each set being divided so as to

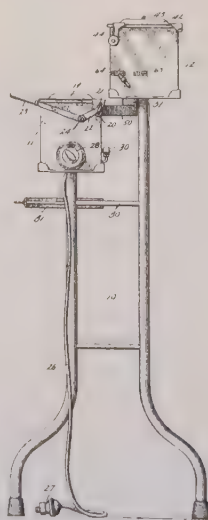
lead into opposite directions, and means for controlling the steam passages allowing the rotors to be actuated in either direction.



2. An engine of the character described, comprising a housing, a shaft rotatable therein, rotors mounted on the shaft and a stationary steam chest mounted between each two rotors, V-shaped blades on each rotor presenting symmetrical working faces in both directions, sets of steam passages in the steam chests on opposite sides communicating with adjacent rotors in opposite directions, the steam passages in each set being divided so as to lead into opposite directions, and having expansion chambers associated therewith for allowing a plurality of blades to be attacked simultaneously, and means for controlling the steam passages allowing the rotors to be actuated in either direction.

3. An engine of the character described, comprising a housing, a shaft rotatable therein, rotors mounted on the shaft and a stationary steam chest mounted between each two rotors, V-shaped blades on each rotor presenting symmetrical working faces in both directions, sets of steam passages in the steam chests on opposite sides communicating with adjacent rotors in opposite directions, the steam passages in each set being divided so as to lead into opposite directions, and means for controlling the steam passages allowing the rotors to be actuated in either direction, said means comprising sliding valves associated with the passages in each steam chest, a main steam admitting valve and an operative connection between the main valve and the sliding valves adapted to actuate both of them simultaneously.

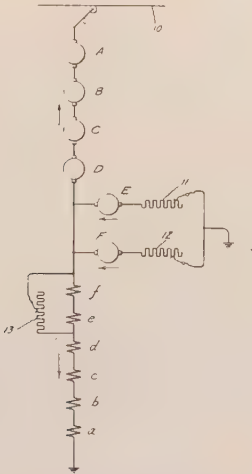
1,421,893. STERILIZER FOR INSTRUMENTS AND DRESSINGS. OTTO BARTA, New York, N. Y. Filed Mar. 26, 1920. Serial No. 369,004. 3 Claims. (Cl. 167-3.)



1. A sterilizer, comprising a stand, a sterilizing vessel supported upon the stand and provided with a removable

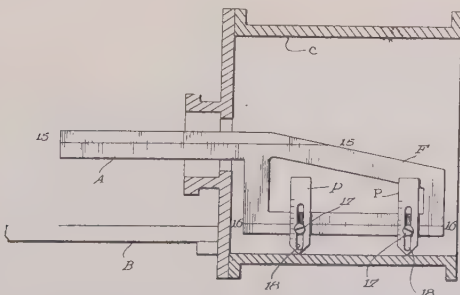
support for the instruments to be sterilized and with a heater for the same, a second vessel supported upon the stand in a higher plane than the first vessel, a sterilizing chamber suspended in the second vessel and provided with a support for dressings, a tube leading from the upper part of the first vessel into the bottom of the second vessel, a second tube establishing communication between the first tube and the bottom of the said chamber, said second tube being provided with perforations opening into the second vessel, and a valve in said second tube.

1,421,894. POWER TRANSMISSION AND ELECTRIC BRAKING. ASA F. BATCHELDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 11, 1920. Serial No. 409,647. 19 Claims. (Cl. 172-179.)



1. In a system of electric braking, a plurality of operatively connected dynamo electric machines having severally armature and field windings, a portion of said machines operating as a self-excited exciter connected in a local circuit with the fields of all of said machines, a resistance in the said local circuit, and connections whereby the braking current has a path through the said resistance and the armatures of said machines, the excitation of all of said machines is varied responsively to the variations of the braking current, and only the current in the local circuit passes through the field windings of said machines.

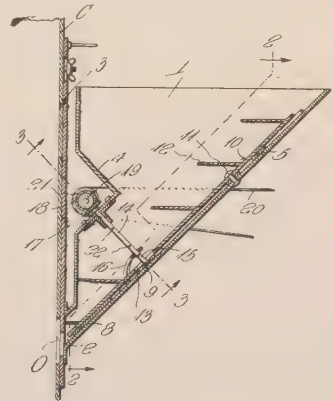
1,421,895. ALIGNING INSTRUMENT FOR CROSSHEAD GUIDE BARS. ARTHUR RUSSELL BATEMAN, Lynchburg, Va. Filed June 4, 1921. Serial No. 474,880. 2 Claims. (Cl. 33-174.)



1. An instrument of the character described comprising a frame adapted to be inserted within an engine cylinder, an arm formed on the frame and adapted to extend ex-

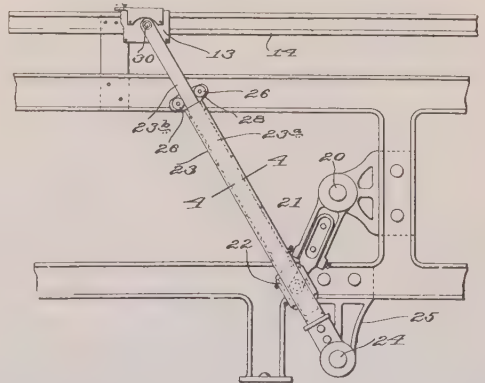
teriorly of the cylinder, said arm having a line formed thereon to extend longitudinally thereof, and sliding pointers supported on the frame to extend at right angles to said line and adapted to contact with the inner wall of the cylinder for the purpose described, the said frame and the said pointers being provided with cooperating means for indicating the right angular position of the pointer with respect to the said line.

1,421,896. FLOUR FEEDER. JOHN W. BENEDICT, Grand Ledge, Mich. Filed Mar. 2, 1922. Serial No. 540,561. 5 Claims. (Cl. 83-44.)



1. A device of the class described comprising a hopper, and a plurality of agitators arranged therein, said agitators being arranged in superposed relation, and each having portions working in the discharge opening of the hopper and being simultaneously operated in planes at right angles to each other.

1,421,897. WIRE MOTION FOR LOOMS. JOSEPH F. BENOIT, Sandford, Me. Filed Aug. 19, 1920. Serial No. 404,626. 3 Claims. (Cl. 139-64.)

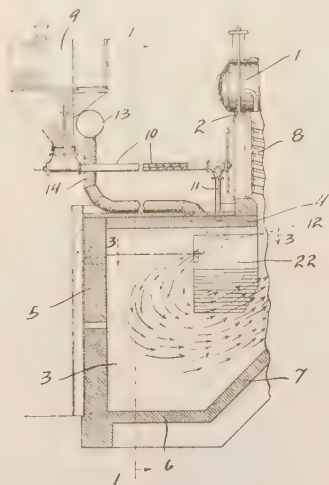


1. Apparatus of the kind described comprising a carriage mounted for operative movement to engage the cutting wires of a loom, and operating mechanism therefor embodying a pivoted lever composed of two parts, telescopic with respect to each other, one of said parts directly engaging said carriage and the other part having an actuating crank engaged therewith.

1,421,898. PULVERIZED-FUEL FURNACE. LARS HUGO BERGMAN, Chicago, Ill. Filed Jan. 7, 1920. Serial No. 350,015. 2 Claims. (Cl. 110-28.)

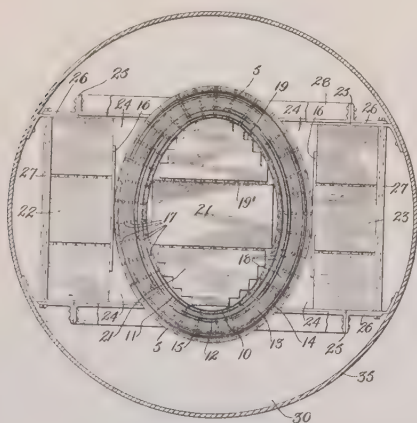
1. In a furnace for pulverized fuel, a combustion chamber, downwardly directed fuel conduits, air chambers one

surrounding the mouth of each fuel conduit, mixture conduits leading from each of said air chambers into the combustion chamber, said mixture conduits being curved so as to deliver streams inclined downwardly and toward the front of the combustion chamber, said inclined streams



converging toward the front of the combustion chamber, an outlet at the rear of said combustion chamber, means for conveying pulverized fuel to said fuel conduits, and means for conveying air under pressure to said air chambers.

1,421,899. TRANSFORMER. ROBERT V. BINGAY, Pittsburgh, Pa., assignor to Pittsburgh Transformer Company, a Corporation of Pennsylvania. Filed Oct. 17, 1919. Serial No. 331,325. 11 Claims. (Cl. 175—361.)

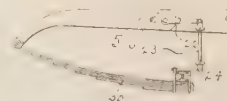


2. In a transformer, the combination of a laminated core having a core leg comprising parallel laminae, the cross section of said parallel laminae having the dimension perpendicular to the planes of said parallel laminae greater than the width of the laminae of said core leg, and a coil around said leg of general elliptical form and having its major axis perpendicular to the planes of said laminae, the convolutions of said coil having continuous arch shaped curvature throughout.

1,421,900. SNUBBER. DÉSIRÉ V. BOUREAU, Detroit, Mich. Filed Jan. 14, 1920. Serial No. 351,383. 4 Claims. (Cl. 267—9.)

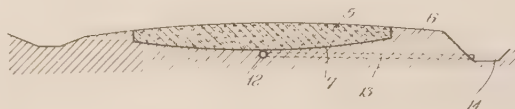
1. In a snubber, the combination of a casing adapted to be secured to one part of a vehicle and a circular wedge rotatably mounted therein and whose inclined surface extends from a shoulder around the wedge to said shoulder,

means to connect the wedge to another portion of the vehicle so it may be turned when the two parts of the vehicle approach each other, a non-rotatable plate movable



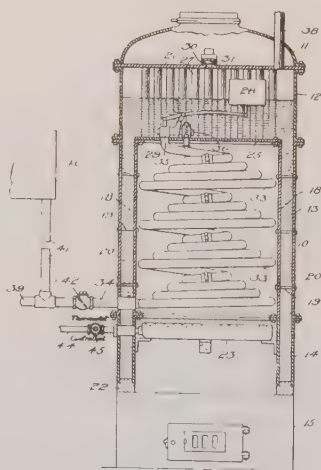
axially of the wedge by the wedge when the wedge is turned, and resilient means to resist such axial movement of the plate.

1,421,901. PAVEMENT. FREDERICK A. BROTSCH, Jr., Rochester, N. Y. Filed Apr. 16, 1919. Serial No. 290,553. 7 Claims. (Cl. 94—10.)



1. A road pavement of rigidly combined material having a lower surface which is convex in shape transversely of the road throughout its length to provide varying thickness of material greater adjacent the center of the pavement than at the sides.

1,421,902. HEATING SYSTEM. JOHN H. BROWN, Spavinaw Creek, Okla. Filed Jan. 10, 1922. Serial No. 528,334. 3 Claims. (Cl. 122—451.)



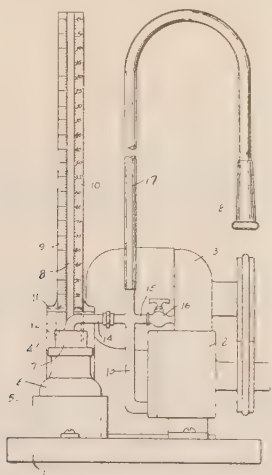
1. In a steam generator, a fire tube section, a water tube section connected thereto, a check valve at the entrance to said water tube section, a float valve for controlling the passage of water from the water tube section to the fire tube section, and a safety valve between said water tube section and said fire tube section.

1,421,903. APPARATUS FOR INDICATING POROSITY. CARL BUBERL, Detroit, Mich. Filed May 21, 1921. Serial No. 471,376. 4 Claims. (Cl. 73—51.)

1. An apparatus for indicating porosity, comprising means for compressing air, a receiver for the compressed air, an indicator of the air pressure in said

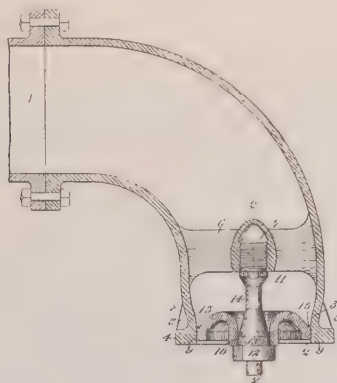
receiver, regulable means for venting said receiver, and a mouth-piece in communication with the receiver ap-

consisting of a ring fitting the cylinder bore and movable to control both ports, and means for shifting said valves



plicable to a body to be tested to afford an escape of air from the receiver proportionate to the porosity of the body being tested.

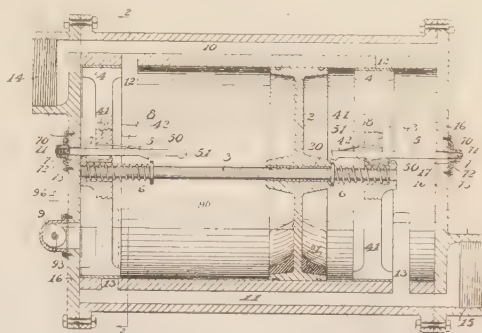
1,421,904. SAFETY CONTROL FOR HYDRAULIC PIPE LINES. ERICH BUEHLE, San Francisco, and ELY C. HUTCHINSON, Oakland, Calif., assignors to Pelton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed June 6, 1921. Serial No. 475,515. 5 Claims. (Cl. 220—88.)



5. A safety control for hydraulic pipe lines comprising a pipe affording a chamber and connected at one end to a hydraulic pressure container, and open for the full area of its opposite end, a spider extended across said pipe within its open end, a head removably received within the open end of the pipe for normally closing the same, said head provided with a central aperture, a headed securing bolt extended through said aperture and threaded into said web for retaining said head in position to close said pipe, said bolt adapted for rupture to release said head on the same being subjected to a pressure below the bursting pressure of said pipe and above the normal pressure within said pipe.

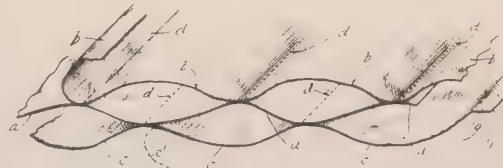
1,421,905. METER. ENOS B. CADZ, Portland, Oreg. Filed May 17, 1920, Serial No. 381,811. Renewed Apr. 10, 1922. Serial No. 551,208. 11 Claims. (Cl. 73—30.)

1. A meter comprising a cylinder, a floating piston in the cylinder, axially spaced inlet and exhaust ports at each end thereof, a valve at each end of the cylinder



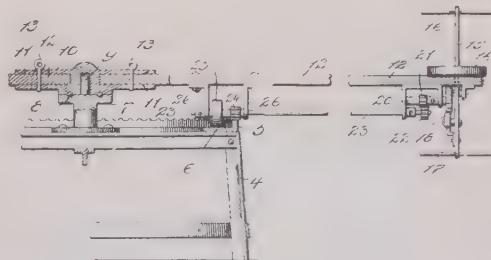
controlled by the piston, each valve being of a width to keep one of its cooperating ports completely closed until it has completely closed the other port, in shifting.

1,421,906. COMFORTER OR WADDEN QUILT. HEMAN A. CALEF, Portland, Oreg. Filed Dec. 3, 1920. Serial No. 427,975. 1 Claim. (Cl. 5—3.)



As an article of manufacture, a quilt comprising a casing of flexible material composed of an upper piece, a lower piece, and an intermediate piece, the intermediate piece being secured at successive substantially equally spaced points to the upper and lower pieces alternately, to provide independent, relatively off-set pockets of substantially equal capacity the length of the upper, lower and intermediate pieces being substantially equal one to another between the extreme points of the attachment, and filling for the respective pockets, said filling serving to give a corresponding fullness to all of said pockets, whereby under stretching of the quilt the upper, lower and intermediate casing-pieces yield to an equal extent, thereby correspondingly and similarly rendering and maintaining the thickness of all pockets substantially uniform throughout the quilt, without regard to its degree of stretch.

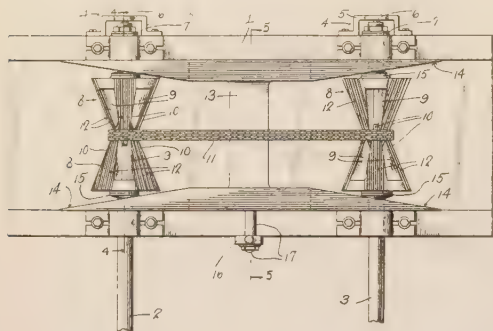
1,421,907. AMUSEMENT DEVICE. JULIAN C. CALLAIS, St. Louis, Mo. Filed June 10, 1920. Serial No. 387,924. 2 Claims. (Cl. 46—27.)



1. In an amusement device, a circular rack, having a horizontal flange; a bearing having a vertical pintle and concentrically mounted within said rack; a spider having sockets and revolvably mounted on said pintle; seat-

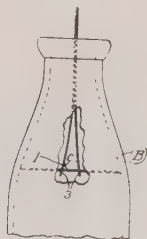
carrying beams detachably mounted in said spider; a reciprocating arm having a handle-bar and a foot-bar and mounted at the outer terminal of each beam; a shaft mounted beneath each of said beams, having pinions at its ends, the outer pinion geared to said reciprocating arm, and the inner pinion engaging said rack.

1,421,908. GEARLESS TRANSMISSION MECHANISM. LOUIS C. CATTOI, Hurley, Wis. Filed Feb. 24, 1921. Serial No. 447,455. 2 Claims. (Cl. 64—8.)



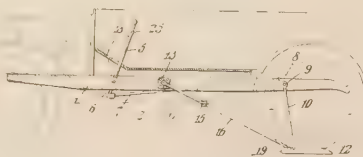
1. A device of the class described comprising a casing, a drive shaft journaled therein, a driven shaft journaled therein, a pair of telescopic cones on each shaft, said cones having tapered slots therein for receiving tapered portions of the companion cone, an H-shaped member slidably mounted in the casing and having the inner faces of its parallel members beveled to engage the broad ends of the cones and a pivoted lever connected with said sliding member for moving the same.

1,421,909. MILK SKIMMER. CHARLES E. CHAMBERS, Wichita, Kans. Filed Dec. 13, 1920. Serial No. 430,362. 2 Claims. (Cl. 31—85.)



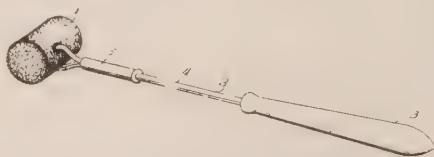
2. In a milk skimmer, a flexible disk having a pair of slots arranged adjacent to and on opposite sides of the center of said disk and in parallelism with each other; two arm members, one for each slot, each comprising a longitudinal strip with a pair of notches oppositely arranged in the side edges of each strip and near the lower end thereof, the said notches of each strip engaging, respectively, the outer portions of its slot and whereby the lower end elements of said strips extend below said disk in spaced apart planes, while the upper end portions extend above the disk as handle elements; the upper handle elements being susceptible of movement in opposite directions and in parallelism with each other, to pivot said disk into parallelism therewith and whereby the lower end elements of said arms below the disk are brought into a contiguous relationship with each other from their former spaced apart relationship.

1,421,910. EMERGENCY BRAKE, ANTISKIDDING, AND ANTITHEFT DEVICE. MAX CREMON, Chicago, Ill., assignor to Virginia Marcia Ciehon, Chicago, Ill. Filed June 3, 1922. Serial No. 565,618. 8 Claims. (Cl. 188—4.)



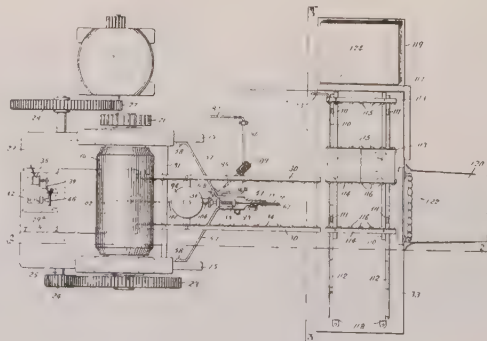
1. An apparatus of the character described, including a vehicle having a pair of driving wheels, a shaft mounted on said vehicle and means for operating said shaft, arms rigidly attached to said shaft, brake shoes carried by said arms and adapted to be projected under the wheels, forwardly extending links attached to the brake shoes and connecting said shoes with the vehicle frame, and springs connected to said links and exerting a force tending to throw the shoes into inoperative position.

1,421,911. TOOTH-CLEANING DEVICE. ABRAHAM B. COHEN, Far Rockaway, N. Y. Filed Aug. 22, 1918. Serial No. 250,928. Renewed Apr. 21, 1922. Serial No. 555,918. 3 Claims. (Cl. 15—30.)



1. A tooth cleanser comprising a composite sheet composed of an interior soft absorbent cotton and a facing composed of a fabric which does not substantially swell up when moistened, the said soft absorbent cotton having pores containing particles of solid dentifrice.

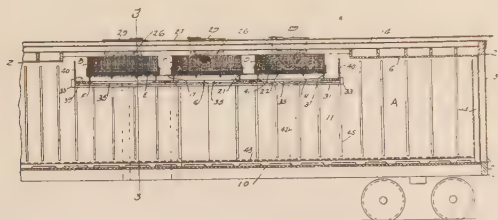
1,421,912. PLATING MACHINE. STANLEY A. COHEN, deceased, late of New York, N. Y., by Alice Hood Cohen, executrix, New York, N. Y., assignor to The New York Consolidated Card Company, Long Island City, N. Y., a Corporation of New York. Filed May 17, 1920. Serial No. 382,022. 12 Claims. (Cl. 92—71.)



1. A plating machine comprising supporting means upon which a pile of material to be plated is adapted to travel, pressing rolls in operative co-relation to said supporting means and operatively connected with each other said pile being reciprocated between said rolls, driving means whereby said rolls are driven and devices located upon

opposite sides of said rolls for controlling said driving means and arranged to be alternately actuated by said pile to reverse the driving means and rolls, whereby the direction of travel of said pile is automatically reversed.

1,421,913. REFRIGERATOR CAR. LESTER W. COLLINS, St. Paul, Minn. Filed Oct. 7, 1919. Serial No. 328,980. 5 Claims. (Cl. 62—17.)



1. A body structure containing a provision chamber, a plurality of assembled ice baskets of open work structure distanced apart and situated near the top and away from ends of said structure, skeleton cradle elements secured to the side walls of said structure for supporting said baskets in position and a plurality of assembled combined drip pan and air baffle elements secured to said side walls and spaced from said ice basket elements for conducting the drip away from the ice in the basket elements and permitting air to circulate freely from the provision chamber over, through, below and around the ice in the basket elements.

1,421,914. ANTIFOULING COMPOSITION. GEORGE D. COLEMAN, deceased, late of Buffalo, N. Y., by Nellie S. Coleman, executrix, Revere, Mass. Filed Nov. 3, 1916. Serial No. 129,393. 4 Claims. (Cl. 106—24.)

1. An anti-fouling composition comprising an intimate mixture of hydraulic cement, cupric material substantially insoluble in water, and a soluble salt of copper.

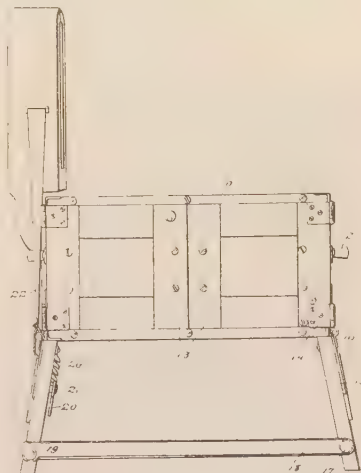
1,421,915. CHAIN. JAMES H. COOKE, Hartford, Conn. Filed Mar. 8, 1920. Serial No. 364,271. 12 Claims. (Cl. 74—32.)



1. A chain link member having its opposite ends offset in the same direction and to the same extent and with the plane of one face of each of said offset portions located substantially in a plane passing centrally through the intermediate portion of the member and parallel with the faces thereof and with roller bearing hubs extending from

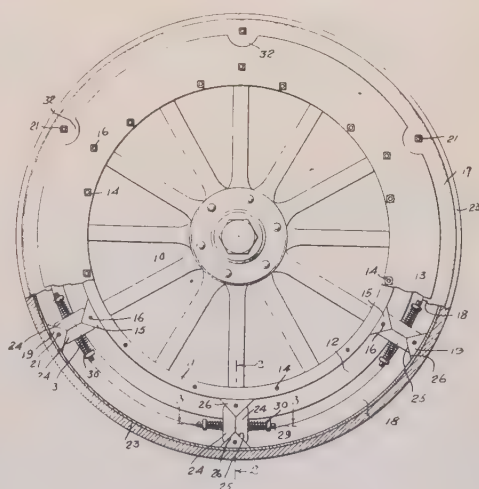
the same side at opposite ends thereof whereby a chain may be formed composed of links all of duplicate construction.

1,421,916. SADDLER'S CHEST. LOUIS B. CRAIG, Davenport, Iowa. Filed Nov. 3, 1920. Serial No. 421,609. 3 Claims. (Cl. 144—286.) (Filed under the act of Mar. 3, 1883. 22 Stat. L., 625.)



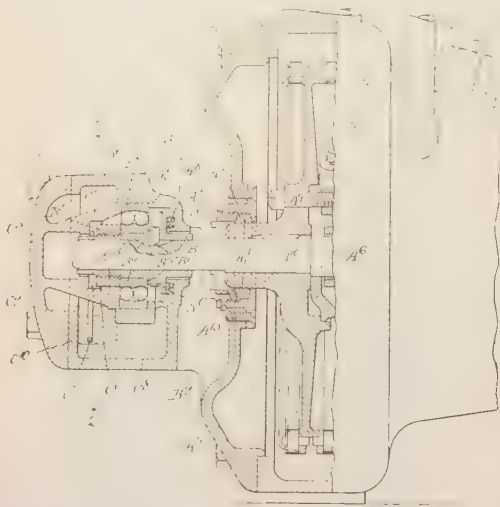
1. A chest, doors hinged at one side of the chest and opening toward respective ends thereof, legs attached to the respective ends of the chest and foldable upon the ends, braces for holding the legs in folded position and unfolded chest supporting position, a treadle pivoted to the legs at the forward end of the chest and a socket secured to the forward end of the chest for the reception of the shank of a clamp.

1,421,917. RESILIENT TIRE. ROBERT CURRY, New York, N. Y. Filed July 9, 1921. Serial No. 483,633. 7 Claims. (Cl. 152—37.)



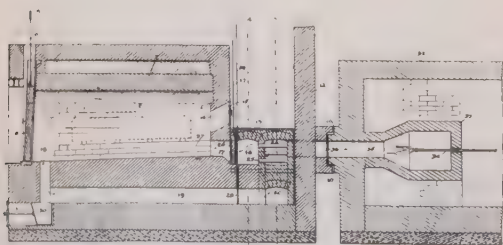
6. A resilient tire for vehicle wheels embodying spaced inner and outer rims, a series of radially disposed cams provided on said rims, a series of circumferentially movable cams respectively engaging the rim cams, and means for resiliently resisting circumferential movement of the circumferentially movable cams whereby to tension the relative movement between said rims.

1,421,918. BEARING FOR STEAM TURBINES. CHARLES W. DAKE, Chicago, Ill., assignor to The Pyle-National Company, Chicago, Ill., a Corporation of New Jersey. Filed Mar. 3, 1919. Serial No. 280,364. 20 Claims. (Cl. 64—36.)



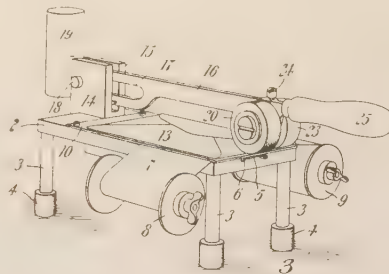
1. The combination with a bearing housing having an apertured wall of a sleeve mounted for rotation within the aperture and extending into the housing, a ball bearing surrounding the sleeve anchored in position and supporting the sleeve, a shaft passing inwardly through the aperture in the wall and removably engaging the sleeve, and means for holding the shaft and sleeve against rotation with respect one to another, and said means being adapted to permit ready withdrawal of the shaft longitudinally from the sleeve without changing the relation between sleeve and bearing, the means for holding shaft and sleeve together comprising a spring collar surrounding the sleeve, a spring key penetrating the sleeve mounted on and forced inwardly by the spring collar and a key seat on the shaft adapted to be engaged by the spring key.

1,421,919. CREMATION FURNACE. ALEXANDER H. DAVIDSON, Colma, and SEVERT'S SENDELUS, San Francisco, Calif. Filed July 7, 1916. Serial No. 107,924. 3 Claims. (Cl. 110—3.)



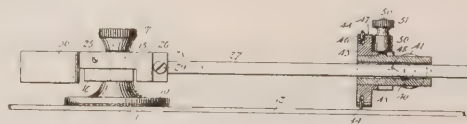
1. In a crematory, a plurality of combustion chambers, a main supply passage to convey heated gases to said combustion chambers, a furnace connected to said supply passage, said connection being provided with an open joint for preventing the transmission of vibration from the furnace to the combustion chambers and for permitting the entrainment of air into said combustion chambers and said passages being formed each with an escape port, a flue connected with each of said escape ports, and means connecting said flues, and means to convey gases from said connecting means to the atmosphere.

1,421,920. PRINTING MACHINE. FRANK DE MINICO, New York, N. Y., assignor to Pollard-Ailling Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 9, 1921. Serial No. 476,120. 10 Claims. (Cl. 101—274.)



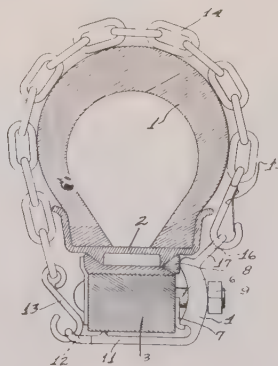
1. A printing machine including in combination means for supporting a printing plate, means for supporting an ink ribbon above the printing plate support, a lever mounted for movement in the direction of its length, an impression roll pivotally mounted on said lever, and a pivot on which said lever is mounted for oscillation normal to the direction of its length toward and away from said table.

1,421,921. ROTARY GLASS CUTTER. CARL F. DOERR, Yonkers, N. Y. Filed Apr. 22, 1921. Serial No. 463,693. 6 Claims. (Cl. 33—27.)



1. In a rotary glass cutter, a cutter bar, a sleeve adjustably fastened to the said cutter bar, a cutter head provided with cutters arranged in spaced relation and projecting from the peripheral face of the cutter head, the latter being mounted to turn on and to slide on the said sleeve to allow of adjusting the cutter head on the sleeve, and means securing the adjusted cutter head in place on the sleeve.

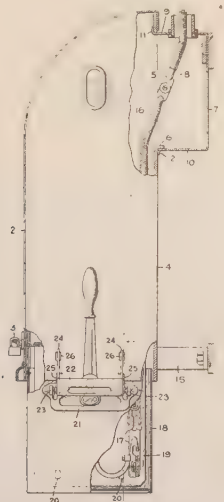
1,421,922. ANTISKID DEVICE. JOSEPH L. DONAT, Chicago, Ill. Filed July 18, 1921. Serial No. 485,473. 2 Claims. (Cl. 152—14.)



1. In a rim securing clamp, two portions at substantially right angles to each other, one adapted to extend across the inner face of the felloe and the other to extend across a lateral face thereof, the last-mentioned portion having a slot to receive the rim securing bolt, perforated lugs projecting from said portions, one of said lugs standing obliquely to its portion, whereby when

the securing clamp is in place on the wheel, the perforations in said lugs will be conveniently located to receive hooks for securing antiskid chains in place.

1,421,923. STARTING COMPENSATOR. PARKER DUNNING, Bloomfield, N. J., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1919. Serial No. 338,571. 4 Claims. (Cl. 200—150.)

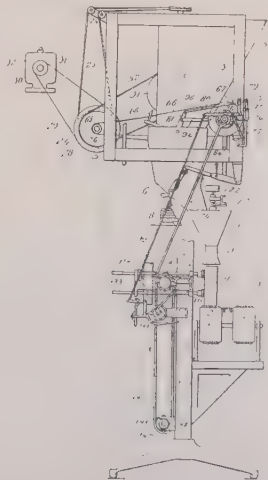


1. The combination of a casing for electrical apparatus, of a movable oil well provided with fixed handles and movable members in close proximity therewith biased to a position in which said well is supported from the casing by the said members.

1,421,924. LIGHT-DIFFUSING MEDIUM AND METHOD OF MAKING THE SAME. LEON W. EBERLIN and SAMUEL E. SHEPPARD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 13, 1920. Serial No. 430,300. 13 Claims. (Cl. 134—45.)

1. A composition of matter consisting of a mixture of a water soluble silicate and amylaceous particles.

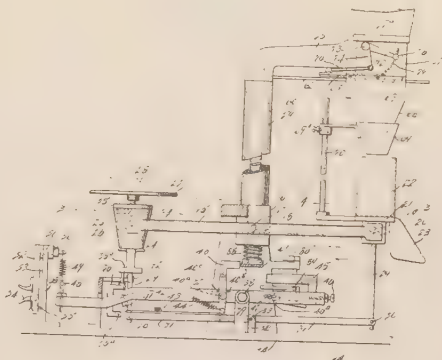
1,421,925. AUTOMATIC PACKAGING EQUIPMENT. EARL B. ELDER, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 15, 1919. Serial No. 317,698. 16 Claims. (Cl. 249—59.)



1. In an apparatus of the class described, a hopper with a bowl at its lower extremity, a vertically moving

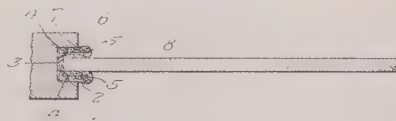
partition in said hopper and means for moving the same, a rotary agitating mechanism in said bowl and means for closing the lower end of the bowl when a predetermined amount of material has passed through the same.

1,421,926. AUTOMATIC WEIGHING MECHANISM. EARL B. ELDER, New York, N. Y., assignor to E. D. Anderson, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 16, 1920. Serial No. 431,093. 21 Claims. (Cl. 249—58.)



1. A weighing machine comprising balancing mechanism, a supply receptacle for material, a gate to control the flow therefrom, means tending to close the gate, means to retain the gate open, devices operative with the balancing mechanism to release the retaining means before a full charge from said supply receptacles has been deposited on the balancing mechanism, the said devices including operating means to actuate the balancing means before said full charge has been deposited thereon, and devices cooperative between the gate and said first named devices to render the latter inoperative with the balancing mechanism whereby the balancing mechanism may operate independently of said gate.

1,421,927. WINDOW-MOUNTING DEVICE. HENRY FAUROT, Jr., Chicago, Ill., assignor to Western Felt Works, Chicago, Ill., a Corporation of West Virginia. Filed Apr. 26, 1922. Serial No. 556,608. 6 Claims. (Cl. 296—44.5.)

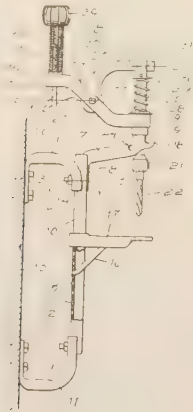


1. A window mounting device, comprising a channeled strip of flexible material adapted to have its base inserted in a channeled frame, the junctions of the side walls and bottom wall of the strip being so reinforced as to cause the side walls to tend to approach each other, the side walls being formed by portions of the material doubled upon itself.

1,421,928. DRILL. JEREMIAH C. FITZGERALD, Kibbourn, Wis. Filed Sept. 9, 1920. Serial No. 409,117. 5 Claims. (Cl. 77—20.)

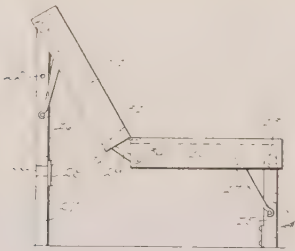
1. A device of the class described, consisting of a shaft adapted to carry a drill-bit at one of its ends and mounted for rotary as well as reciprocatory movement, a

crank mounted to turn said shaft, a connection uniting said shaft and crank, and independently operable



threaded means carried by the crank and connected to said connection for controlling the reciprocatory movement of said shaft.

1,421,929. COMBINATION TABLE. GABRIEL FLORE SKUL, Toronto, Ontario, Canada. Filed Aug. 13, 1920 Serial No. 403,371. 1 Claim. (Cl. 45—116.)

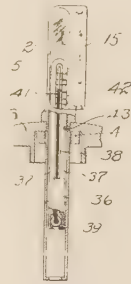


A table of the character described comprising in combination with two box-shaped elements hingedly connected at their upper edges, pairwise arranged legs pivotally secured within said elements, braces also pivotally connected to the inner side walls of said elements and adapted to engage with their outer hooked ends pins on said legs, foot parts hinged to said legs, the foot part of one pair of said legs adapted to be swung into alignment with said legs, while the foot parts of the other pair are held parallel with the legs for allowing the use of the table as a chair, and clamps holding said foot parts in alignment with said legs and a clamp rod pivotally secured to the lower edge of the side walls of one of said box-like elements and engaging with its hooked other end a pin in the inner side walls of the other elements, substantially as described.

1,421,930. APPARATUS FOR INDICATING THE AMOUNT OF WATER IN AUTOMOBILE RADIATORS. CAMPBELL FORD, San Francisco, Calif. Filed July 24, 1918. Serial No. 246,424. 2 Claims. (Cl. 73—82.)

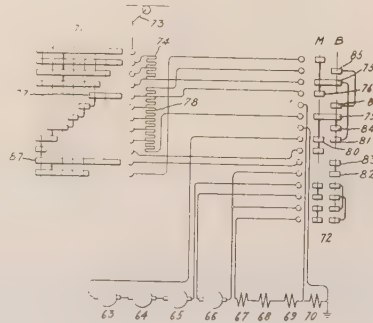
1. In an apparatus for indicating the amount and temperature of water in a tank, a float, a scale, a rod

attached to said float for indicating on said scale the level of water in said tank, and a thermometer tube secured



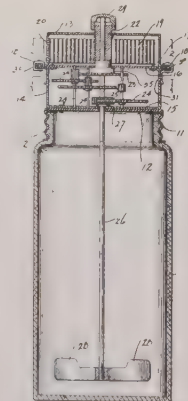
to said rod and having its bulb in said float in communication with the water in said tank.

1,421,931. ELECTRIC BRAKING. PETER W. FORSBERG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,288. 26 Claims. (Cl. 172—179.)



1. In a system of control for electric braking, a resistor, a plurality of dynamo-electric machines, a portion of the armatures of which is connected in series with the resistor to form a braking circuit, and another portion of the armatures of which operates as an exciter connected with the field windings of all of the machines in a shunt circuit to the resistor.

1,421,932. SPRING-OPERATED MOTOR. JOHN C. FOSTER, New York, N. Y. Filed June 9, 1920. Serial No. 387,634. 7 Claims. (Cl. 185—39.)



1. In a spring motor, the combination of a casing, a shaft rotatably carried by said casing, a sleeve rotatably mounted upon said shaft, a spring connecting said cas-

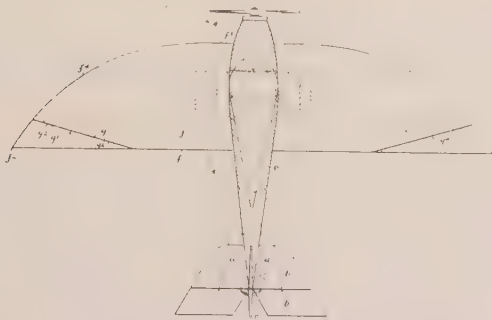
ing and sleeve, means operatively connecting said sleeve and shaft, and means adjustably mounted on said sleeve exteriorly of said casing, and engaging said shaft for regulating the speed ratio thereof.

1,421,933. CLIP DEVICE FOR REELS. EDWARD FULDA, New York, N. Y. Filed July 12, 1920. Serial No. 395,616. 8 Claims. (Cl. 242—74.)



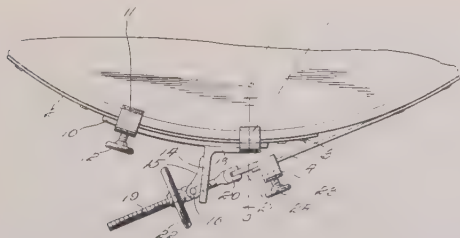
8. In a reel, the combination with a hub or drum provided with a peripheral slot or depression and shoulders at the ends of said slot, of a clip consisting of a continuous piece of spring metal engaging both of said shoulders and passing under a projection intermediate said shoulders whereby a free end of the clip will be held against the surface of the drum by spring action of the metal of the clip itself and downward pressure upon the clip at a point thereof between said shoulders will cause it to fulcrum on a shoulder and raise said free end.

1,421,934. AEROPLANE CONSTRUCTION. WILLIAM P. GARY, Totowa Borough, N. J. Filed Dec. 9, 1921. Serial No. 521,106. 4 Claims. (Cl. 244—12.)



1. A cambered aerofoil having as viewed in plan its leading edge convex and its trailing edge and leading edge meeting at a point abaft the central transverse axis of the aerofoil and also having the substantially longitudinally contour-sections thereof graded down in size to substantially said point but all approximately identical in form the chords of all such contour-sections being in substantially the same plane.

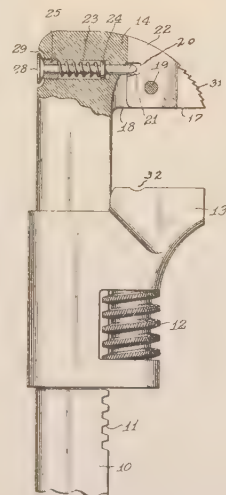
1,421,935. HOOP-STRETCHING DEVICE. WALKER B. GILBERT, Lynchburg, Va. Filed Aug. 21, 1920. Serial No. 405,109. 8 Claims. (Cl. 254—67.)



1. In a device of the class described, means conformable to the curvature of the side wall of a barrel for

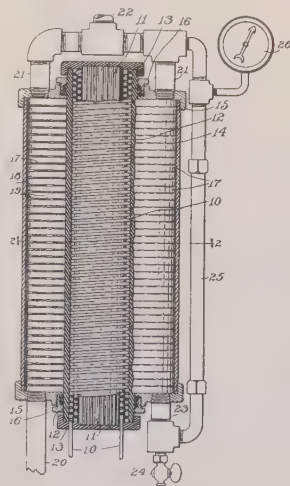
clamping one end of a hoop in position thereon, means for securing said first mentioned means in position, and means associated with said first-mentioned means for engaging the other end of the hoop and stretching the latter prior to the securing of the same to the wall of the barrel.

1,421,936. WRENCH. FRANK R. GILBY, Detroit, Mich. Filed Mar. 5, 1921. Serial No. 449,724. 10 Claims. (Cl. 81—780.)



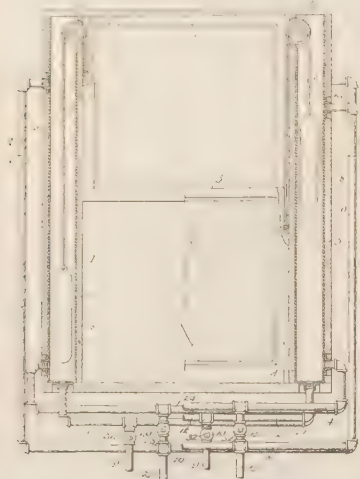
1. A wrench having a dog pivoted thereon, a shank, and a jaw, the dog having a curved serrated surface eccentric to the pivot, the radial distance of the eccentric surface from the pivot being greatest adjacent to the shank whereby movement of the dog away from the shank causes the serrated surface to approach the jaw.

1,421,937. ELECTRIC WATER HEATER. ARTHUR M. GOLDBERG, Indianapolis, Ind., assignor to Electric Controller Company, Inc., Indianapolis, Ind., a Corporation of Indiana. Filed July 28, 1921. Serial No. 488,123. 8 Claims. (Cl. 219—47.)



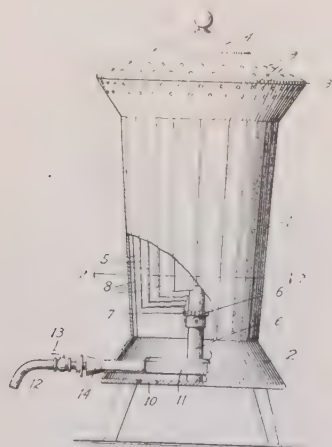
2. An alternating-current electric water-heater, comprising an outer water-containing casing having inlet and outlet openings, a primary winding and core within said outer casing, and a plurality of sheet-metal plates located within said outer casing and surrounding said primary winding and core.

- 1,421,938. WINDOW-OPERATING DEVICE. CHARLES I. GOLDBREATT, Brooklyn, N. Y. Filed Mar. 10, 1921. Serial No. 451,186. 6 Claims. (Cl. 268—4.)



1. The combination with a frame and a member slidable vertically in the frame, of a counterbalance normally retaining said member in elevated position, a flexible device connecting the slidable member and the counterweight, and means for partially immersing the counterbalance in a fluid, whereby the weight of the sliding member will preponderate and said member will slide by gravity in the frame.

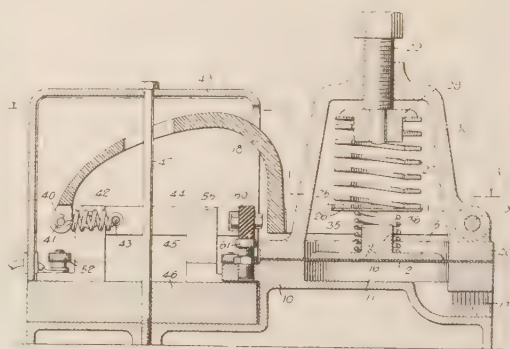
- 1,421,939. AIR HEATER. MICHAEL HACHALACHTI, New York, N. Y., assignor of one-fourth to George L. Livingston and one-fourth to Abraham Okun, New York, N. Y. Filed Oct. 11, 1918. Serial No. 257,723. 1 Claim. (Cl. 126—90.)



A gas heater of the class described embodying a substantially frusto conical casing inverted so that its wall diverges upwardly, a chambered base positioned adjacent the casing and forming a combustion chamber, a perforated cover for said casing and an upright post extending vertically through the heater, in combination with radially extending partitions positioned longitudinally of the interior of the casing to divide said interior into a plurality of upwardly extending circulating passages segmental in cross section and diverging in an upward direction, means carried by the post for spacing the partitions and a gas burner positioned in the com-

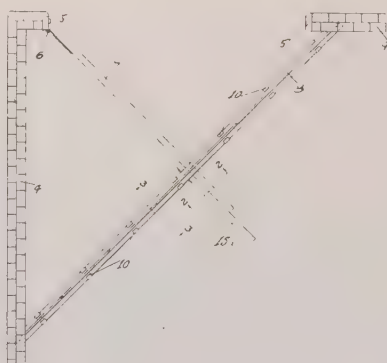
bustion chamber, whereby all the air passing through the chamber is mixed with the products of combustion and circulates upwardly through the diverging passages to be dispersed through the perforations of the cover.

- 1,421,940. AUTOMATIC PRESSURE-OPERATED SWITCH. WILLIAM L. HAMILTON, Bangor, Mich. Filed Sept. 10, 1918. Serial No. 253,489. 3 Claims. (Cl. 200—83.)



1. In a pressure regulator, a diaphragm exposed to pump pressure, a lever having depending lugs, a spring supporting plate held on the lever, a spring bearing on the said supporting plate, a pressure plate on the said diaphragm and engaged by the said lugs, the said pressure plate having a rising boss, a light spring interposed between the said pressure plate and the under side of the said supporting plate, the light spring engaging the said boss, a switch having a pivoted member, and a tension spring connecting the free end of the said lever with the said pivoted switch member.

- 1,421,941. DOOR HANGER. ALVA J. HAYES, Corydon, Iowa. Filed May 12, 1921. Serial No. 468,970. 3 Claims. (Cl. 20—16.)

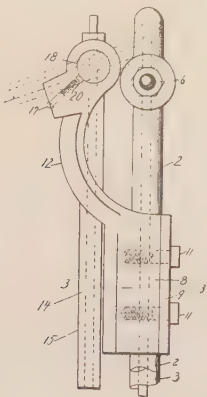


1. The combination with a door adapted to swing from one of its sides, a suitably supported straight track extending substantially across the sector described by the door, upper rollers adapted to travel on said track, lower rollers, a track on the door adapted to travel on the lower rollers, and a swivel device connecting the upper and lower rollers.

- 1,421,942. WINDSHIELD SUNSHADE. GEORGE A. HOLSBERG, San Francisco, Calif. Filed Nov. 18, 1919. Serial No. 338,843. 1 Claim. (Cl. 296—95.)

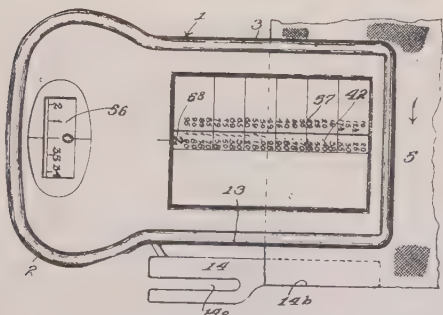
The combination with a windshield having upper and lower panels, of a frame for said panels, a hinged joint

connection between the upper end of the top panel and the frame to permit a swinging movement of said panel in said frame whereby it may occupy different positions of adjustment, a pair of brackets detachably connected to said frame below the hinged connections between the same and the upper panel, vertically disposed arms



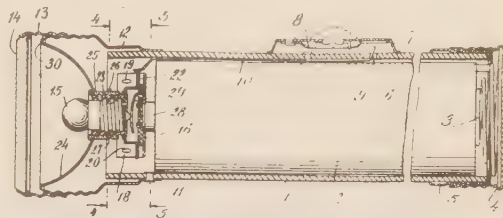
extending from said brackets and positioned so as to be out of the horizontal path of movement of the swinging upper panels, bearings in said arms and disposed in substantially the same horizontal line as said hinged joints for the upper panel, and a swinging auxiliary shield overlying a portion of the upper panel supported in said bearings in said arm.

1,421,943. CLOTH-MEASURING AND COST-COMPUTING MACHINE. GREENE CARLTON HOSCH and GEORGE B. KYLE, St. Louis, Mo., assignors to The Measuregraph Company, St. Louis, Mo., a Corporation of Delaware. Filed Mar. 27, 1920. Serial No. 369,368. 20 Claims (Cl. 33—133)



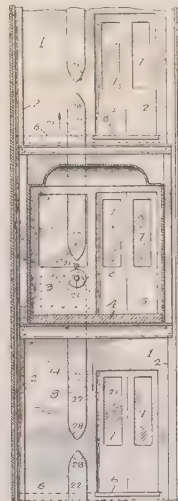
1. In a fabric measuring and cost-computing machine the combination of a casing, a measuring roller mounted therein, a presser-roller co-operating with the measuring roller to press the fabric against the same, indicating mechanism actuated by the measuring-roller, returning means for returning the indicating mechanism to zero, and a controlling member with means for effecting the raising and lowering of the presser-roller and means actuated by the controlling member for controlling the operation of the returning means.

1,421,944. SPOTLIGHT. FREDERICK L. HUMISTON, New Haven, Conn., assignor to Winchester Repeating Arms Company, a Corporation of Connecticut. Filed Oct. 25, 1921. Serial No. 510,207. 10 Claims. (Cl. 240—8.5.)



1. In a hand lamp, the combination of a casing, a battery therein, a lamp, a support for said lamp, and a reflector rotatable on said support to move axially of said casing.

1,421,945. ELEVATOR CONTROLLER. RUDOLF A. ISENBERG, San Francisco, Calif. Filed Mar. 15, 1921. Serial No. 452,587. 8 Claims. (Cl. 187—32.)

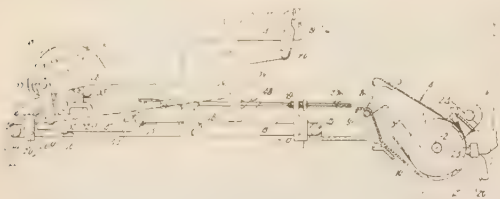


5. The combination with an elevator shaft and elevator mounted therein, of a contact arm for controlling movement of said elevator within said shaft; a controller arm operatively connected to the contact arm and projecting beyond the elevator; means for normally actuating said contact and controller arms to move said elevator in either direction within the shaft and to stop the same; and means mounted within the elevator shaft and engaging said controller arm to prevent movement of the same and the contact arm secured thereto when the actuating means therefore have been moved to a stop position between predetermined points within said shaft, and to permit movement of said controller and contact arms to a stop position to stop said elevator at predetermined points within said shaft.

1,421,946. TYPEWRITING MACHINE. ARTHUR A. JOHNSON, Washington, D. C., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed July 6, 1921. Serial No. 482,694. 20 Claims. (Cl. 197—126.)

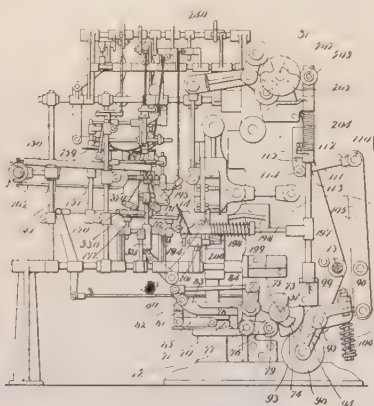
1. In a typewriting machine, in combination, a revoluble platen, a carriage therefor having a rearward extension, a carbon-carrier mounted for forward and rear-

ward movement on said extension, and means to prevent cumulative creeping of separate plies fed around said platen, comprising pins mounted on said carrier, so that they may be projected into correspondingly po-



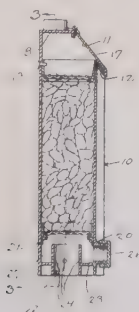
sitioned perforations in superposed forms on the separate plies, and thereby prevent relative displacement of the forms to the rear of said pins during the feeding of the forms in advance of said pins around the platen.

1,421,947. AUTOMATIC COUNTER-FORMING MACHINE. ALBERT F. JONES, Salem, Mass. Filed Sept. 2, 1920. Serial No. 407,778. 26 Claims. (Cl. 12—66.)



1. A counter-forming machine, comprising male and female shaping dies, die-operating mechanism including means for entirely withdrawing the male die from the cavity formed by the female dies, and automatic blank-supplying mechanism including means for bending a blank at a station outside the said cavity, means for confining the bent blank, and means for shifting the bent and confined blank to insert its body portion in said cavity, said confining means being adapted to engage the blank until the male mold enters the cavity and to then release the blank.

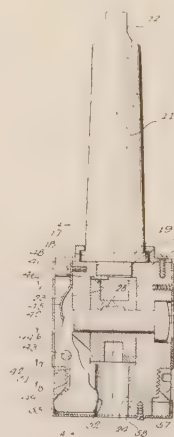
1,421,948. FILTER. DAVID A. JONES and CLARENCE R. MARTIN, Bartlesville, Okla. Filed May 28, 1921. Serial No. 473,260. 4 Claims. (Cl. 210—91.)



1. In a filter of the type described, a casing, vertically spaced trays within the casing, the uppermost of said

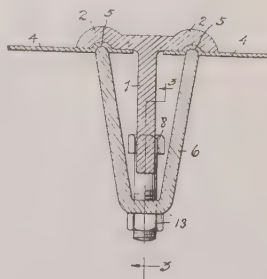
trays being disposed in spaced relation to the top of the casing and the lowermost of said trays being arranged in spaced relation to the bottom of the casing, inlets opening through the top of the casing adjacent opposite sides thereof, and an outlet opening through the bottom of the casing and extending upwardly within the casing to a point adjacent the bottom of the lowermost tray, said outlet being provided adjacent the upper surface of the bottom of the casing with minute openings.

1,421,949. TAP AND REAMER CHUCK. OTTO S. KALLMAN, Minneapolis, Minn. Filed Feb. 20, 1920. Serial No. 360,240. 7 Claims. (Cl. 279—14.)



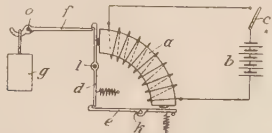
1. A chuck, comprising a body having a tool shank receiving opening formed therein, means arranged in the body having a plurality of different sized openings therein arranged to receive the inner ends of a tool shank, and means carried by said body and projecting into said tool shank receiving opening therein, for clamping a tool.

1,421,950. METAL BUILDING CONSTRUCTION. THOMAS H. KANE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed May 15, 1920. Serial No. 381,545. 5 Claims. (Cl. 189—1.)



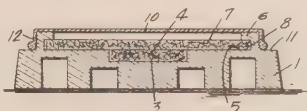
1. In a metal building construction, the combination of a column, a sheet metal wall panel provided with a corrugation along a vertical edge, the column being formed of a plurality of angular members, one of which has a groove to receive the corrugation on the panel, another member being positioned to hold the corrugation on the panel in the groove, and means to secure the parts of the column together.

1,421,951. ELECTROMAGNET FOR MOMENTARILY RELEASEABLE LOCKING DEVICES WITH ELECTRIC LOCKING OF THE RELEASING MEANS. KARL FRIEDRICH KAPPES, Mannheim, Germany, assignor to the Firm of Luftfahrzeug-Bau Schutte-Lanz, Mannheim-Rheinau, Germany. Filed Oct. 8, 1920. Serial No. 415,645. 3 Claims. (Cl. 74—93.)



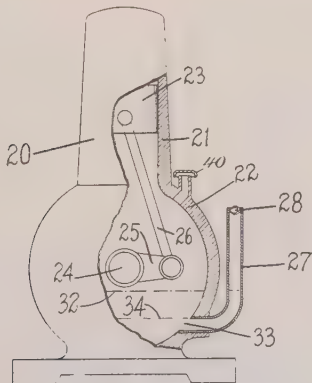
1. An electric releasing device, comprising, in combination, an electromagnet; means for exciting it; two armatures adapted to be attracted by said electromagnet; locking means at said armature; a loaded lever; two arms located between this lever and said armatures and being adapted to be operated by them at the same time, substantially and for the purpose as described.

1,421,952. RESILIENT STAMP PAD. ROBERT H. KEE and WHITNEY K. MUNSON, Los Angeles, Calif., assignors to Mun-Kee Products Corporation, a Corporation of California. Filed Apr. 11, 1921. Serial No. 460,592. 4 Claims. (Cl. 91—54.5.)



1. A device of the character described comprising a base, a recess in the upper surface to receive a pad, a second recess in the base of the first recess forming a reservoir, depressions in the bottom of said base, said depressions increasing in depth as radial spacing is increased.

1,421,953. SIGNALING DEVICE. LESTER S. KEILHOLTZ, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 29, 1917. Serial No. 145,156. 6 Claims. (Cl. 116—112.)



1. In a device of the character described, the combination with an engine including a crank case having a breather and adapted to contain a supply of lubricant, said crank case being provided with an opening positioned below the normal level of the lubricant; a tube connected to said crank case and having a passage-way communicating with the opening in the crank case; and an audible signaling device secured to said tube, whereby the passage of air to the signaling device due to the operation of the engine will indicate a predetermined low level of the lubricant in the crank case.

1,421,954. MOLDING COMPOSITION. JOHN L. KELLER, Charleston, W. Va. Filed Feb. 28, 1921. Serial No. 448,643. 2 Claims. (Cl. 106—24.)

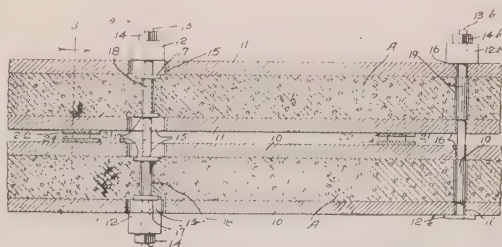
1. The herein described molding composition, consisting of water, paper, saw dust, cement, lamp black, Paris green, linseed oil, wheat flour and brick dust substantially as described and for the purposes specified.

1,421,955. GOLF-BAG BALL RECEPTACLE. CHARLES B. KEMP, New York, N. Y. Filed July 30, 1921. Serial No. 488,588. 6 Claims. (Cl. 150—1.5.)



1. A golf bag involving a golf ball receptacle having an opening for the insertion of the balls, means for preventing withdrawal of the balls through said opening, and a closure for said receptacle arranged and adapted to permit the removal of the balls from the receptacle.

1,421,956. COLLAPSIBLE MOLD FOR CONCRETE STRUCTURES. HERMAN J. KESTLER, New York, N. Y. Filed Dec. 22, 1920. Serial No. 432,486. 20 Claims. (Cl. 25—131.)



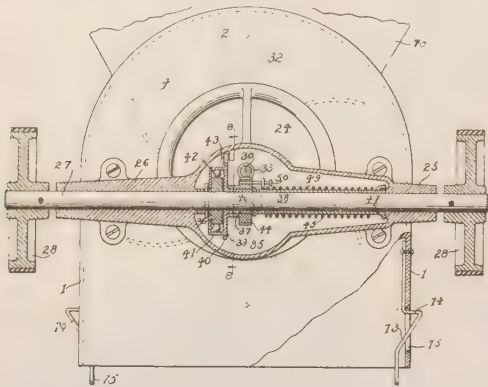
3. As a new article of manufacture, a collapsing core unit for use between the inner and outer molding means for molding double walls to hold said means spaced, said unit comprising elongated elements, the one element having a series of openings therein and the other element having a corresponding series of bevelled lugs adapted to enter said openings when the cores collapse and adapted to engage the other element at said openings by a relative longitudinal movement of said elements for expanding the unit.

5. A mold for forming double concrete walls, including plank sides arranged in pairs constituting mold sections to form said double walls, clamping means for the several series of planks, said clamping means extending through all the planks of both pairs, said clamping means including transverse bolts, and elongated vertically disposed elements on said bolts and extending along the joints at the inner sides of the respective series of planks, together with expansible means between those planks forming the inner sides of the respective mold sections.

9. A mold for concrete walls comprising planks forming the inner and outer sides of the mold, and corner

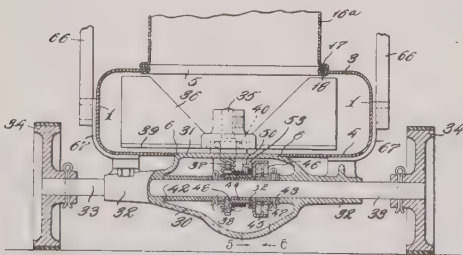
elements connected with the ends of adjacent planks, said corner elements including means for sustaining said corner elements offset from the general planes of the outer adjacent sides; together with an angle piece at the said corner and spaced from the first-mentioned corner element to determine the inner surface of the molded wall at the corner.

1,421,957. SUCTION SWEEPER. JAMES B. KIRBY. Cleveland, Ohio. Filed Oct. 7, 1918. Serial No. 237,108. 12 Claims. (Cl. 15-18.)



3. The combination with a dustpan and a rotatable brush located in operative relation thereto, of energy storing means of the fly-wheel type operatively connected to said brush, carrying wheels journaled to said dustpan, a driving member geared to said energy storing means, and a spring connected to said member and said wheels, said spring being adapted and arranged to be wound up with the forward movement of said dustpan and also to operate said driving member in a direction to turn said energy storing means in a direction to rotate said brush in a direction to throw litter upon said dustpan.

1,421,958. SUCTION SWEEPER. JAMES B. KIRBY. Cleveland, Ohio. Filed Apr. 12, 1919. Serial No. 289,617. 28 Claims. (Cl. 15-18.)

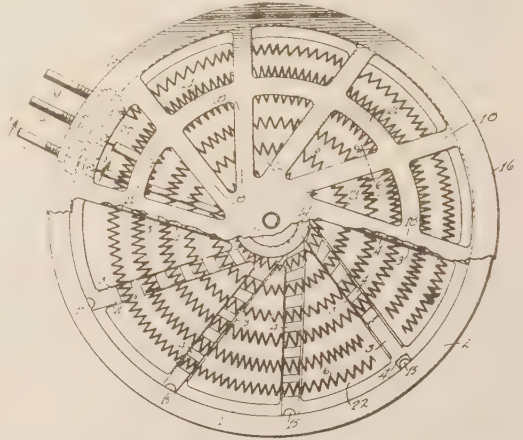


4. The combination, in a suction sweeper, of carrying wheels, a rotary fan, and a spring motor wound up by the wheels and arranged to drive the fan.

1,421,959. ELECTRICAL HEATING UNIT. ROYCE GER-ALD KLOEFFLER, Manhattan, Kans. Filed Nov. 26, 1920. Serial No. 426,473. 9 Claims. (Cl. 219-37.)

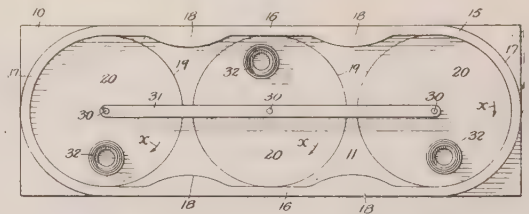
2. An electrical heating unit comprising a body portion having a plurality of spoke-like supporting members, an insulating strip carried by each of the said spoke-like members, resistance elements supported by said insulat-

ing strips, a cover portion having spoke-like members arranged to register with the first named spoke-like members, an insulating strip carried by each of the spoke-like



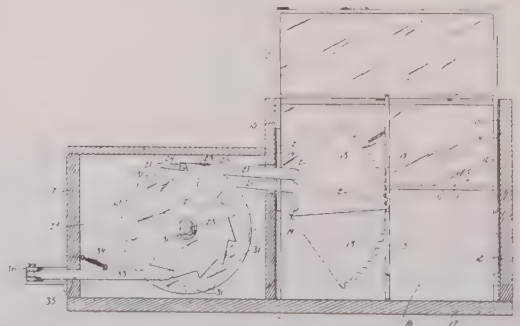
members of the cover for holding said resistance elements in position, and means for securing said cover to said body portion.

1,421,960. AMUSEMENT APPARATUS. WALTER F. KRAHE, Brooklyn, N. Y. Filed Feb. 10, 1921. Serial No. 443,798. 7 Claims. (Cl. 46-27.)



5. An apparatus of the class described comprising an elongated platform having semi-circular end portions, disks mounted in the end portions of said platform, another disk mounted in said platform intermediate of said first named disks, carriage members mounted on and movable over said platform and disks, and means for rotating all of said disks to move said members over said platform and from one disk to another.

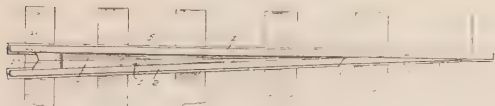
1,421,961. AUTOMATIC ADVERTISING DEVICE. WILLIAM H. KUHNE, Waterbury, Conn. Filed Aug. 24, 1921. Serial No. 494,820. 3 Claims. (Cl. 40-60.)



1. In an automatic advertising device, the combination with a gang of independent, vertically-movable advertis-

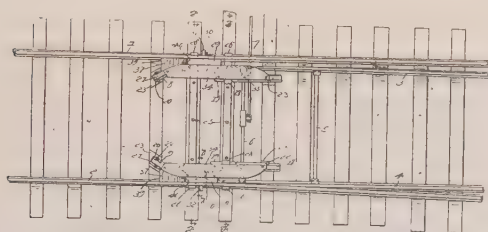
ing-frames, each having a depending rack; of a series of complementary, frame-actuating mechanisms each having a gear meshing into the depending rack of its complementary frame and located below the same, and means operated by the movement of a door for successively operating the said frame-actuating mechanisms for the successive lifting and exposure of the said frames between which the gears are positioned to rise as the frames are successively elevated.

1,421,962. RAILWAY-SWITCH FILLER. DENNIS E. LAHEY, Louisville, Ky. Filed Feb. 18, 1922. Serial No. 537,488. 6 Claims. (Cl. 238—380.)



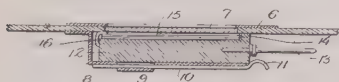
1. The combination with a stock rail and a switch point cooperating therewith, of a wedge shaped filler block arranged between said rail and switch point, said filler block being attached to and movable with the switch point.

1,421,963. RAILWAY SWITCH. DENNIS E. LAHEY, Louisville, Ky. Filed Feb. 18, 1922. Serial No. 537,489. 15 Claims. (Cl. 246—435.)



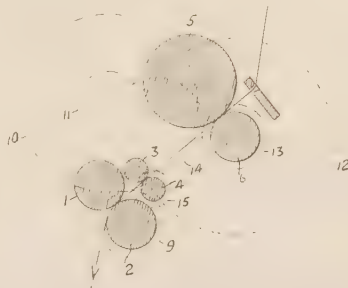
1. In a railway track, the combination with stock rails and movable switch points cooperating therewith, of guard rails arranged between the stock rails, each guard rail being bent intermediate its ends to provide a recess, and plates carried by the guard rails and arranged over the recesses for housing the switch points.

1,421,964. SHIPPING DEVICE. ROBERT H. LANGFORD, Springfield, Tenn. Filed Jan. 12, 1921. Serial No. 436,704. 2 Claims. (Cl. 220—82.)



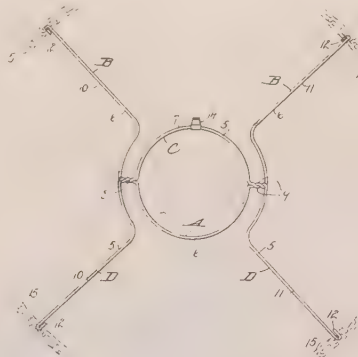
1. A shipping device of the character described, consisting of a container, a cover for said container having a sight opening and locking means, a window protecting said sight opening, a plate on the upper part of the cover surrounding said opening and retaining the window in place, a casing secured below said window, a slide mounted in said casing and having a pocket to carry address cards, and means in the casing for securing the slide in place.

1,421,965. HIGH SLIP DRAFT APPARATUS FOR SPINNING COTTON ROVINGS. OTTO LATSCH, Oxford, Ala., assignor of one-half to George F. Hoffman, Philadelphia, Pa. Filed Feb. 4, 1922. Serial No. 534,018. 4 Claims. (Cl. 19—130.)



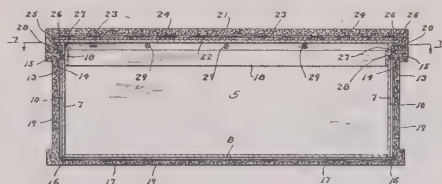
1. In high slip-draft apparatus for spinning cotton rovings the combination of a smooth top middle roll of weight and setting adjusted to permit slippage, means for positively driving said top middle roll, and a positively driven smooth bottom roll.

1,421,966. TIRE-CHAIN RETAINER. GEORGE J. LA VIGNE, New Haven, Conn. Filed Apr. 6, 1922. Serial No. 550,202. 3 Claims. (Cl. 152—14.)



1. A tire chain retainer, comprising two members formed from wire, and each including a semi-circular central section, bearings and radially-extending arms, the bearings of one member adapted to engage with the bearings of the other member, and the arms adapted to engage with a tire chain.

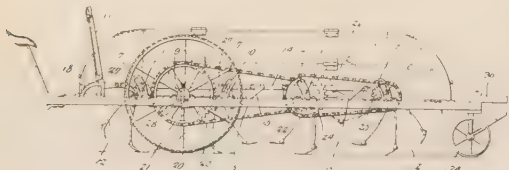
1,421,967. BURIAL BOX. FREDERICK LEES, Philadelphia, Pa. Filed Nov. 30, 1921. Serial No. 518,894. 2 Claims. (Cl. 27—7.)



1. A burial box of cementitious material having an inner wooden body, vertically spaced battens on the outer faces of the sides and end walls and longitudinal battens under said wooden body, a reinforcing strip completely surrounding the upper outer edge of the wooden body and secured to the aforesaid vertical battens, an inner facing strip secured to the inner upper edge of the wooden body and constituting one wall of a surrounding sealing

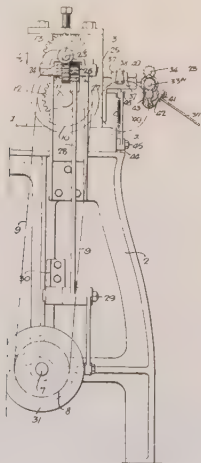
groove in the cementitious material, metallic fabric surrounding and attached to the aforesaid battens, the upper and lower edges of said metallic fabric being inturned to grip the upper and lower edges of the wooden body, and a cover for said burial box having an inner wooden face reinforced by metallic fabric and a depending angular cross section lip, said lip being adapted to seat in a groove about the said burial box, means for hermetically sealing said cover to the burial box, and means for transversely bracing the burial box against expansion or contraction.

1,421,968. FARMING MACHINE. JOHN H. LEWIS, Rhinelander, Wis. Filed Sept. 21, 1920. Serial No. 411,712. 2 Claims. (Cl. 97—25.)



1. An agricultural machine including an outer frame and an inner frame, bull wheels for supporting the frames, a plurality of bearing members supported on the frames, each of said bearing members including an elongated curved opening, a plurality of shafts supported on the frame, and having their extremities operating in the opening, operating means having connection with the shafts for moving the shafts into and out of operation, and a plurality of earth engaging arms supported by the shafts.

1,421,969. MEANS FOR CUTTING FABRICS. RUDOLF LOEB, Jenkintown, Pa. Filed Sept. 1, 1920. Serial No. 407,453. 11 Claims. (Cl. 164—77.)



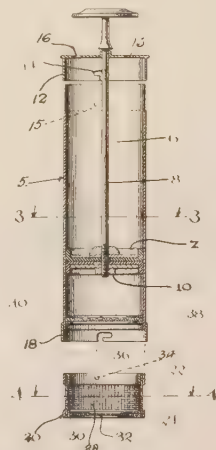
1. The combination in a machine for cutting fabrics, of means for severing the fabric at predetermined intervals; and means in advance of the severing means for guiding and placing tension on the fabric.

1,421,970. PAINT COMPOSITION. JAMES B. McCARTNEY, Muscatine, Iowa, assignor of one-fourth to Evert F. Richman and one-fourth to Charles J. Richman, both of Muscatine, Iowa. Filed Nov. 29, 1920. Serial No. 427,180. 3 Claims. (Cl. 134—52.)

3. A coating composition consisting of eight ounces of gasoline, one ounce of carbon bi-sulphide, one ounce of

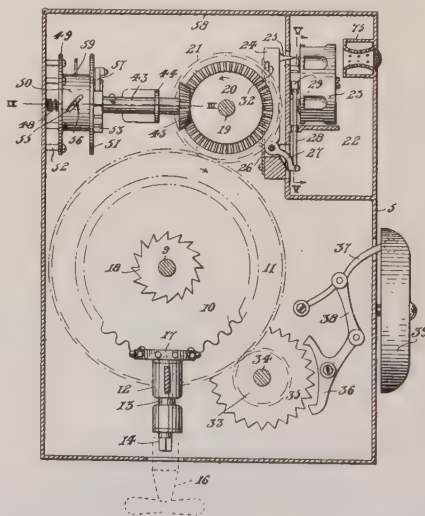
paraffin oil, enough coal tar to make with the foregoing ingredients one gallon of mixture, and enough comminuted shells to give to the mixture the desired consistency.

1,421,971. HYDROCHEMICAL CLEANER. BERT McCARTY, Tampa, Fla. Filed Nov. 1, 1920. Serial No. 421,145. 9 Claims. (Cl. 141—1.)



2. A portable cleaning device comprising a hand pump having a cylinder and a plunger, a cylindrical foraminous receptacle having an open end flatly abutting the forward end of said cylinder, said cylinder and said receptacle being of the same diameter, an attaching flange surrounding the adjacent portions of said receptacle and said cylinder, the forward portion of said cylinder being provided with a reticulated end wall.

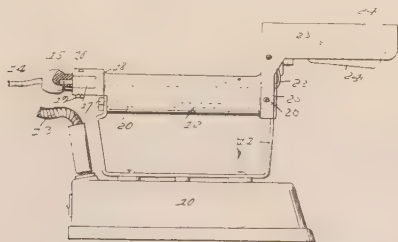
1,421,972. BURGLAR ALARM. JOSEPH F. MACKOVITCH, Conway, Pa., assignor of one-third to Mandoline Mailing, Pittsburgh, Pa. Filed Dec. 17, 1921. Serial No. 523,047. 8 Claims. (Cl. 116—23.)



5. An alarm mechanism of the class described comprising a spring motor, a gear driven thereby, a pivot hammer having a firing pin, a spring for urging the hammer to firing position, means including cooperating pins upon the hammer and gear for intermittently swinging the hammer from firing position as the gear is rotated, a second gear rotatable with the first named gear, a stationary spindle, a hollow shaft journaled upon and slidable longitudinally on said spindle, a pinion fixed upon

one end of the hollow shaft, a spring normally urging the hollow shaft in one direction to engage the pinion with said second named gear, means to cause endwise movement of the hollow shaft upon rotation of the same in one direction to disengage the pinion from the second named gear, ratchet means for preventing rotation of the hollow shaft in the opposite direction to which it is urged by said motor, means to rotate said hollow shaft including a flexible member, means for causing endwise movement of the hollow shaft including a drum to which the flexible member is attached and which is provided with an oblique elongated slot, said drum being fixed upon the hollow shaft, and a radial pin being fixed upon the spindle and projecting into said slot.

- 1,421,973. SADIRON LIGHT. CHARLES L. MALLOY, Coaldale, Pa. Filed June 8, 1920. Serial No. 387,311. 1 Claim. (Cl. 240—2.)

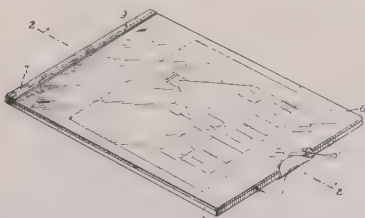


A sad iron having a grip or handle formed at its rear end with a block extension which is slotted transversely, a block fitted in said slot or recess and forming one member of a coupling, bolts passing through the block extension and through the block to secure the two together, electrical connectors carried by the block, a conductor passing longitudinally through the handle member and connected with said connectors in said block, a socket mounted on the forward end of the handle and electrically connected with said conductor, a lamp carried by the socket member, a shade or reflector mounted on the handle member and disposed to reflect the light from the lamp to the surface which the iron traverses, and a terminal block removably engageable with said connectors.

- 1,421,974. METHOD OF PRODUCING NONSHATTERABLE GLASS. OTTO S. MARCKWORTH, Columbus, Ohio. Filed Mar. 26, 1919. Serial No. 285,348. 22 Claims. (Cl. 49—81.)

16. A method of producing non-shatterable glass comprising immersing assembled glass and celluloid laminæ in a solution consisting of fusel oil, camphor and methyl salicylate while the solution is at a temperature between 24 degrees and 35 degrees centigrade, subsequently raising the temperature of the solution which has been applied to the laminæ, applying pressure to the laminæ, and subjecting the parts to a progressively increasing temperature during the pressure.

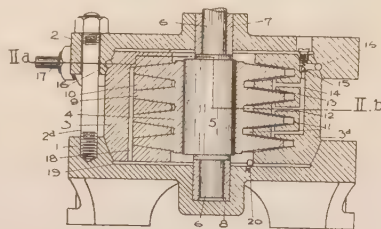
- 1,421,975. TRACING DEVICE. J. NICHOLAS MEYERS, Philadelphia, Pa. Filed Jan. 25, 1921. Serial No. 439,823. 1 Claim. (Cl. 35—10.)



As an article of manufacture, a copying device presenting a relatively rigid base, a transparent flexible copying

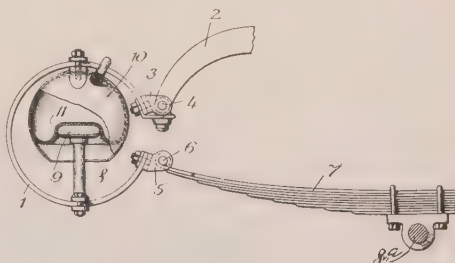
surface, a flexible connection for hingedly and permanently connecting said transparent copying surface to the base whereby articles of various thicknesses may first be adjusted on the base, then covered by said transparent copying surface and clamped between the two without disturbing the articles, and a clasp pivotally carried by the relatively rigid base adapted to engage the transparent copying surface to effect an optional clamping of the article to be copied and the transparent copying member to the rigid base.

- 1,421,976. METHOD AND APPARATUS FOR PUMPING FLUIDS. ANTHONY G. M. MICHELL, Melbourne, Victoria, Australia, assignor to Michell Bearings Limited, Westminster, England. Filed Aug. 5, 1919. Serial No. 315,476. 3 Claims. (Cl. 103—44.)



1. A method of pumping consisting in cyclically varying the thickness of a film of the fluid to be pumped between closely fitting and relatively moving surfaces, whereby pressure, dependent on the viscous resistance of the fluid, is generated in the film during the portion of the cycle in which the thickness of the film is diminished.

- 1,421,977. SHOCK ABSORBER. KARL MICKLEY, Zurich, Switzerland, assignor to the Firm Alfred Joël & Co., Zurich, Switzerland. Filed Apr. 19, 1921. Serial No. 462,651. 4 Claims. (Cl. 267—32.)



1. In a shock-absorber, the combination of a plate spring curved to a hoop shape and interposed between two members for transmitting a load from one of said members to the other, and an air-cushion device operatively connected to said plate spring in the manner of a stay, at points lying between the ends of said plate spring and the part opposite said ends and tending to counteract the compression of said plate spring caused by the load.

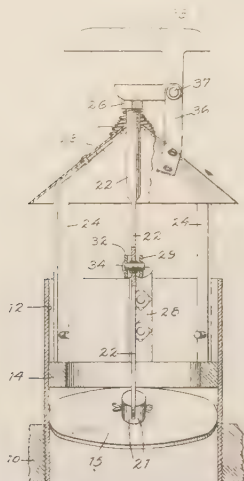
- 1,421,978. PROCESS OF MAKING ARSENIC TRICHLORIDE. LOWELL H. MILLIGAN, New Kensington, Pa., assignor to Newton D. Baker, Secretary of War. Filed June 12, 1920. Serial No. 388,663. 13 Claims. (Cl. 23—13.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

12. In a process for making arsenic trichloride, heating an arsenic compound with chlorine and a reducing agent.

- 1,421,979. FIRE EXTINGUISHER. HOWARD S. MITCHELL, Homer, La. Filed June 25, 1920. Serial No. 391,592. 3 Claims. (Cl. 220—88.)

3. The combination with a storage tank having a vent opening, of an apparatus of the character described com-

prising a casing fitted in said opening, a normally opened valve arranged within the casing and including a valve stem having an opening therein, a member secured to the casing and extended across the top thereof, said member having an opening, an explosive chamber supported by said member and adapted to receive a charge of explosive, a pivoted latch element associated with said member and



adapted to be arranged in parallelism therewith, said element having an opening adapted to register with the aforementioned opening, a fusible pin adapted to be passed through said openings for holding the valve in an open position, a plug carried by said element for closing said explosive chamber, said explosive when ignited effecting the release of said valve, and means for automatically closing the valve subsequent to its release.

- 1,421,980. METHOD OF PROTECTING SHOE LASTS. FREDERICK L. MORSE, Framingham, Mass. Filed July 9, 1920. Serial No. 394,953. 1 Claim. (Cl. 12—133.)

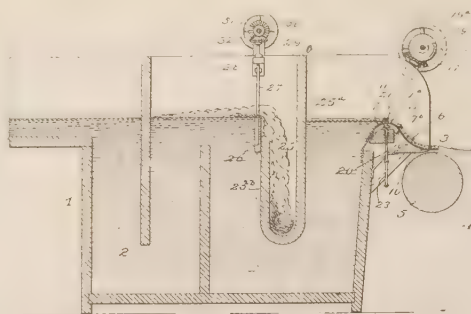


The method of protecting a shoe last consisting in applying metallic plates to embrace the edges of the last and anchoring the said plates at their edges, and in finishing the said plates on each side of the edges of the last to which the plates are applied to the contour of the contiguous surfaces of the last.

- 1,421,981. METHOD OF AND APPARATUS FOR FEEDING PULP TO THE FORMING WIRES OF PAPER-MAKING MACHINES. JAMES M. MURRAY, Berlin, N. H., assignor to International Paper Company, a Corporation of New York. Filed Aug. 16, 1918. Serial No. 250,101. 21 Claims. (Cl. 92—44.)

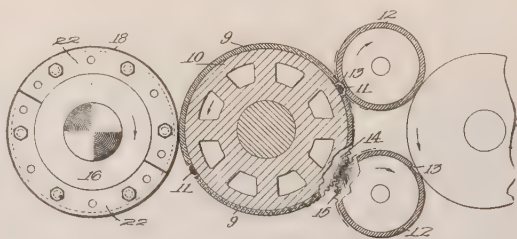
1. The method of feeding pulp to the forming wire of paper making machines, which consists in providing a pool

of the pulp, delivering the pulp from the pool onto the forming wire in a downwardly flowing stream free from



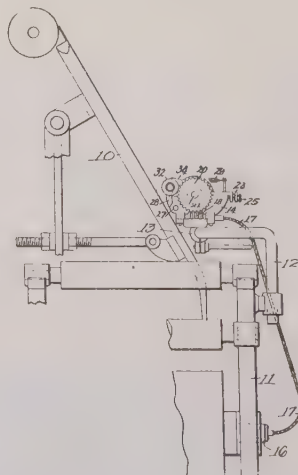
disturbing influences, and permitting the pulp to advance with the wire free from obstruction above.

- 1,421,982. PRINTING COUPLE. CONRAD NORDFORS, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Sept. 26, 1918. Serial No. 255,848. 8 Claims. (Cl. 101—216.)



1. The combination with a printing plate cylinder, having plates thereon and between the plates plate high margin bars, of an inking roller therefor having a surface depression registering with the margin bars to prevent inking their surfaces.

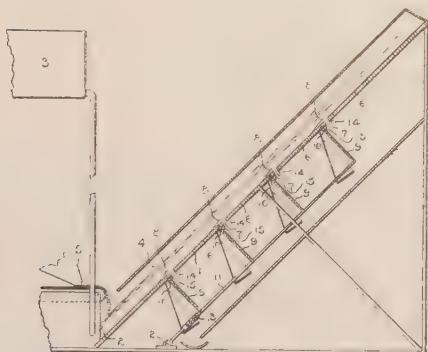
- 1,421,983. MACHINE FOR COUNTING OUT AND MARKING PRINTED PRODUCTS. CONRAD NORDFORS, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 11, 1918. Serial No. 266,211. 3 Claims. (Cl. 270—20.)



1. The combination of the stationary former plate of a paper folder, with freely rotatable means movable to a

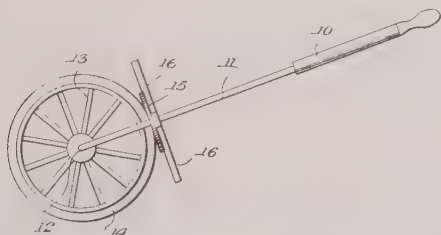
position to press the web against said plate and adapted to be turned by the movement of the paper for marking the last one only of each series of products of a predetermined number, while passing over said plate.

1,421,984. CONCENTRATING PULVERULENT MATERIAL. FRANK ONDRA, Johannesburg, Transvaal, South Africa, assignor to Concentrators Limited, Johannesburg, Transvaal Province, South Africa, a Company of the Transvaal Province of the Union of South Africa. Filed Jan. 28, 1920. Serial No. 354,646. 3 Claims. (Cl. 83—82.)



2. The herein-described process of concentrating pulverulent material in the art of mineral separation which consists in first causing the particles to be mixed with a fluid under pressure and to be projected by such pressure in a stream following an uninterrupted path inclined at an angle to the vertical; collecting the particles as they fall due to their weight from said stream in prearranged zones to obtain a plurality of collections of particles each containing both gangue and mineral particles of substantially the same weight but varying as to size; and then separating the particles according to size to separate the mineral from the gangue particles.

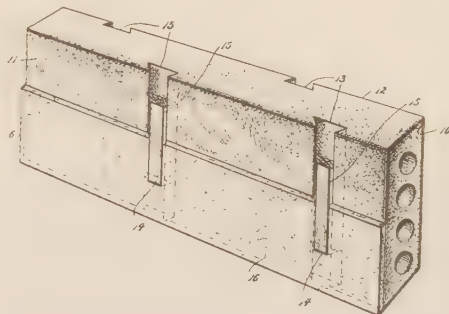
1,421,985. TOY. LORENCE ORUSSA, Roanoke, Ill. Filed Nov. 5, 1920. Serial No. 422,001. 1 Claim. (Cl. 46—38.)



A device of the character described comprising an elongated rod having one end provided with a handle and having its other end formed with a right angularly extending axle portion, a ground engaging wheel journaled upon said axle portion and provided with a rubber tire, and a spinning member rotatable upon said rod at right angles to said wheel and engaging said tire whereby to be rotated thereby when said wheel is trundled along the ground, said spinning member comprising a disk and crossed arms secured thereon, the disk being of relatively small diameter and engaging against the periphery of said tire, and the cross-arms being relatively long and extending beyond the wheel.

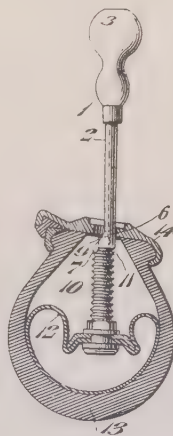
300 O. G.—9

1,421,986. WALL CONSTRUCTION. ELMER V. PHILLIPS, Philadelphia, Pa. Filed Nov. 30, 1920, Serial No. 427,500. Renewed Dec. 8, 1921. Serial No. 520,987. 1 Claim. (Cl. 72—105.)



The combination with a wall structure formed of units having channels therein with undercut walls, of blocks positioned within the channels and having beveled edges cooperating with the undercut walls, the faces of the blocks projecting outwardly from the surface of the units, a body of plastic material applied to the surface of the wall, extending between the blocks and the floor, and flush with the face of the blocks, a base board overlying the blocks thus embedded and the flush body of plastic material, and devices for securing the base board to the blocks, and holding said board in intimate contact with the blocks, and in contact with the surface of the plastic material and the floor.

1,421,987. TOOL FOR RELEASING AN AIR VALVE FROM RIM OF AN AUTOMOBILE TIRE. ELMER QUINN, Philadelphia, Pa. Filed Apr. 5, 1921. Serial No. 458,664. 2 Claims. (Cl. 29—84.)

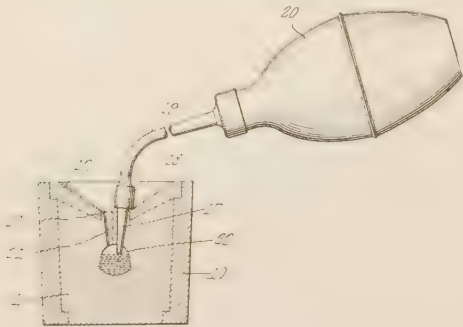


1. In a device of the character described, a tool having at its lower portion a chamber provided with an upper wall 6, a rear wall 5, and side walls 3, the latter having the terminal horizontal edges 8, and the outer depending terminal lips 7, whereby a chamber is formed between the walls 3 and 5 adapted for the reception of the upper end of the nipple, said terminal lips being adapted to overhang the upper shoulder of said nipple.

1,421,988. APPARATUS FOR CASTING FILLINGS FOR TEETH. WILLIAM H. RICHARDS, Knoxville, Tenn. Filed Dec. 16, 1921. Serial No. 522,830. 7 Claims. (Cl. 22—97.)

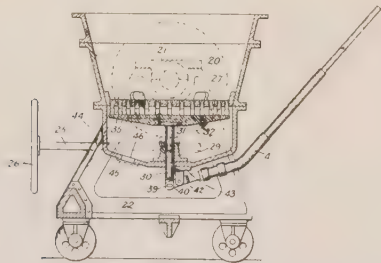
1. In apparatus of the character described, a mold having a cavity formed therein receiving the impression

element, a pair of tubular sprues extending through the material of the mold and leading into the cavity, and



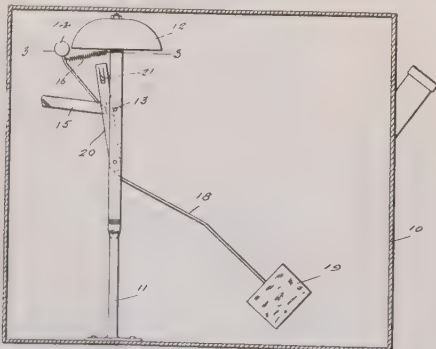
means for passing a heated fluid through one tubular sprue.

1,421,989. BLAST-ROASTING APPARATUS AND THE LIKE. GILBERT RIGG, Melbourne, Victoria, Australia, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Australia. Filed June 9, 1920, Serial No. 387,663. 9 Claims. (Cl. 266—21.)



1. In blast roasting operations and the like for the treatment of ores maintaining the permeability of the charge by periodically breaking perforating or opening up the clinker formed over the grate thus permitting a uniform passage of the blast.

1,421,990. SIGNAL. VINCENT R. RINDT, Winter, Wis. Filed May 28, 1921. Serial No. 473,472. 3 Claims. (Cl. 116—110.)



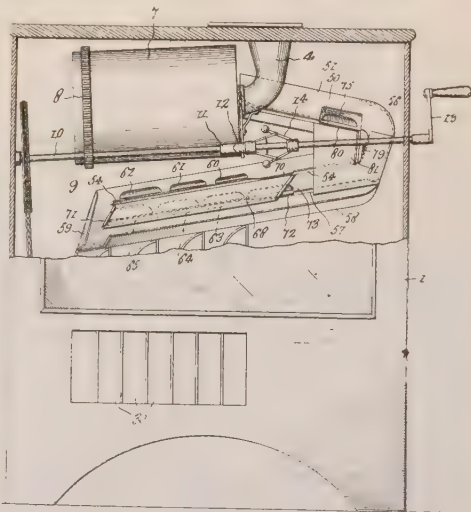
1. The combination with a liquid containing receptacle, of a standard arranged within the receptacle, a bell supported by the standard, a spring pressed hammer normally contacting said bell, and float actuated means for moving the hammer away from said bell against the tension of said spring, and subsequently releasing the hammer for the purpose specified.

1,421,991. FISH LURE. CLAUDE M. RODGERS and ARTHUR W. WENGER, Warsaw, Ind. Filed May 31, 1921, Serial No. 473,596. Renewed May 20, 1922. Serial No. 562,528. 6 Claims. (Cl. 43—42.)



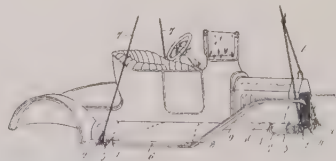
6. A fish lure comprising a plate having upstanding sides cut away at opposite points intermediate its length, a hook secured to the plate with the barbed portion upward and with the shank engaging the plate in position to clamp a flexible trailer between itself and the plate, and a spoon having a flexible connection with the plate at the forward end of the latter, and being adapted at both its upper and lower sides for connection with a fishing line, whereby the plate may be guided to different depths when drawn through the water.

1,421,992. AUTOMATIC COIN SEPARATING AND COUNTING DEVICE. HENRY WILLIAM ROELING, EDWARD HUGH WILLIAMS, and JOHN GEORGE BAUER, New Orleans, La. Filed Mar. 21, 1921. Serial No. 454,014. 6 Claims. (Cl. 133—3.)



1. A device of the character described comprising a coin chute comprising means to receive the coins, a plate having rails one above another for receiving the coins from said means, said plate having graduated slots above the rails for separating the coins, and means for diverting the mutilated coins from the rails and slots, substantially as described.

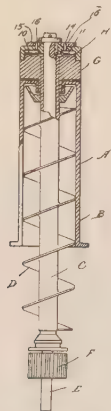
1,421,993. LIFTING IRON FOR MOTOR CARS. CHARLES ALBERT ROFE, Marton, New Zealand. Filed July 24, 1919. Serial No. 313,078. 1 Claim. (Cl. 294—82.)



A lifting iron comprising a body portion and end portions, each of the end portions being offset at an angle to the body portion, and extending on opposite sides to each other, end hooks formed on the ends of the body portion, one of said hooks extending at substantially

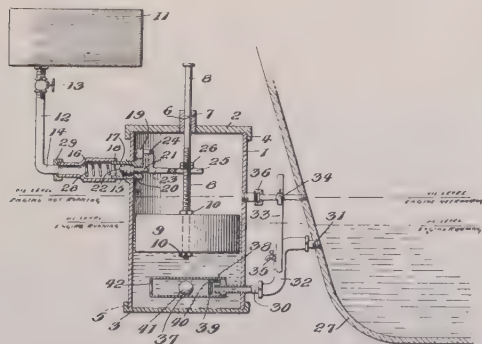
right angles to the end portions and the other within the same plane therewith, the said iron being adapted to be inserted in a substantially horizontal position beneath the running board of an automobile to engage with the bracket or chassis.

1,421,994. DRIVING MECHANISM FOR LOCOMOTIVE STOKERS. JOHN W. ROHRER, Columbus, Ohio. Filed May 22, 1920. Serial No. 383,582. 1 Claim. (Cl. 192—43.)



In a locomotive stoking device including a casing, a head formed on one face with a ratchet, a conveyor having a shaft passing through said head, and a member carried by the shaft of the conveyor adjacent said ratchet; driving mechanism comprising pairs of pawls pivoted upon said member, a disk mounted upon said shaft and disposed against the outer end of said member, said disk being provided at diametrically opposite sides with cut-out portions and being provided intermediate said cut-out portions with an arcuate slot, said member being formed at diametrically opposite sides with slots registering with the first named cut-out portions, lugs extending from said pawls and disposed through said second named slots and extending into said cut-out portions, and a guide bolt for said disk carried by said member and extending through the arcuate slot in the disk, and an extension on the disk serving as a combined handle and indicator and movable over a scale on said member.

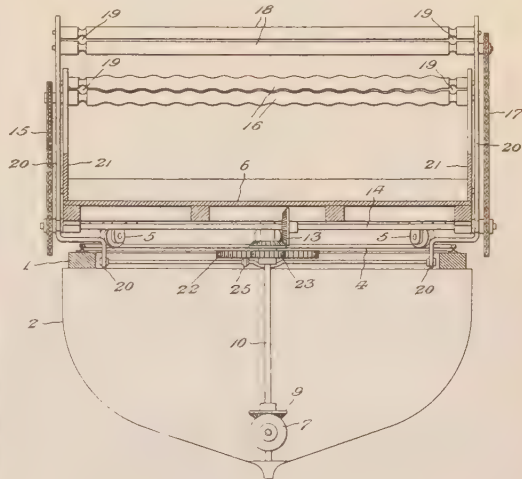
1,421,995. LUBRICANT-CONTROLLING DEVICE FOR AUTOMATICALLY CONTROLLING THE LUBRICATING SYSTEM OF GAS ENGINES OF AUTOMOBILES AND OTHER MOTOR VEHICLES. ALFRED J. ROWAN, Sault Ste. Marie, Mich. Filed Aug. 26, 1921. Serial No. 495,638. 6 Claims. (Cl. 184—103.)



1. A lubricating controlling device of the class described including a receptacle, means for automatically

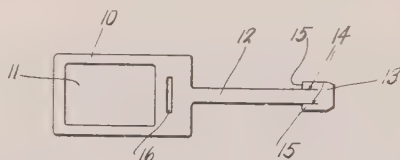
maintaining the oil within the receptacle at a predetermined level, a connecting pipe for connecting the receptacle with a crank case, and gravity acting means for closing the connecting pipe when the same is tilted either longitudinally or laterally.

1,421,996. SEINE-OPERATING MECHANISM. TOM RUNNING, Juneau, Territory of Alaska. Filed Oct. 17, 1919, Serial No. 331,396. Renewed Dec. 3, 1921. Serial No. 519,802. 2 Claims. (Cl. 254—137.)



1. A seine operating device comprising a turntable, uprights thereon, a pair of rollers mounted in said up-rights, a rocking frame carried by the platform, a pair of rollers carried by said frame, all of said rollers having grooves adjacent their ends for permitting the floats and sinkers on the seine to pass between the rollers, means for rotating the rollers and means for rocking the frame.

1,421,997. LINK. JOHN V. SANDQUIST, Houston, Tex. Filed July 13, 1920. Serial No. 395,919. 5 Claims. (Cl. 59—91.)

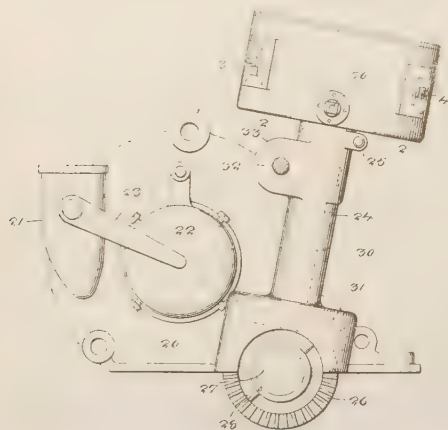


1. A link comprising a member having an opening therein, a substantially T-shaped bendable member adapted to be bent upon itself to provide a loop and having the head thereof associated with the link and bendable tongues forming an integral part of the structure for locking the head in active association with the link.

1,421,998. COMMUTATOR AND BATTERY-CHARGING OUTFIT INCLUDING THE SAME. DONALD S. SCARBOROUGH, St. Louis, Mo., assignor to Peter Douras, East St. Louis, Ill. Filed Apr. 11, 1919. Serial No. 289,351. 2 Claims. (Cl. 175—364.)

1. The combination of a cover, a housing integral with said cover and having a comparatively large lower portion and a sleeve extending upwardly from said lower portion and provided with an upper clamp portion, a shaft having a miter gear interposed in the lower portion of the housing, a shaft disposed in the sleeve portion of the housing and having a miter gear intermeshed with that of the first-named portion, a commutator rotor fixed

on the second-named shaft, above the housing, and a casing carrying brushes opposed to said rotor member and having a portion disposed in the clamp portion of



the housing, whereby the casing may be turned about the second-named shaft for the adjustment or setting of the brushes.

1,421,999. SHOE-STRING TIP. RUDOLPH F. SCHILLER, Sun Prairie, Wis. Filed Feb. 21, 1922. Serial No. 538,180. 2 Claims. (Cl. 24—143.)



1. A tip for shoe strings comprising a cylindrical member having its bore provided with impinging elements, said tip designed, when inserted over a shoe string to be pulled from the opposite ends thereof to expand the same longitudinally and to contract the same laterally and in such contraction to cause the impinging elements to enter the shoe string.

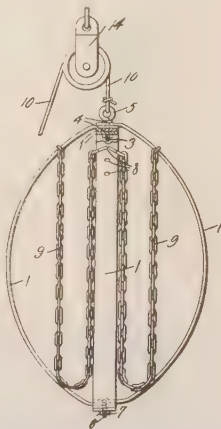
1,422,000. CAM GEARING. HENRY J. SCHMICK, Williamsport, Pa. Filed Mar. 1, 1918. Serial No. 219,809. 6 Claims. (Cl. 74—36.)



1. In gearing, the combination of a plurality of spirally disposed cams having overlapping ends, the working

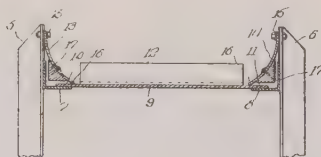
faces of said cams being twisted substantially as described, and a gear wheel having teeth twisted transversely and circumferentially to fit the twisted cam surfaces.

1,422,001. CHIMNEY CLEANER. ALONZO H. SHARP and WILLIAM D. COCKRELL, Aldrich, Minn. Filed Apr. 23, 1921. Serial No. 463,809. 2 Claims. (Cl. 15—163.)



1. A cleaner of the class described including bowed scraping members radially disposed about a common axis, said members having adjustably connected lapping terminals, means connected to the terminals at one end of the members for raising and lowering the device, and looped flexible cleaning elements interposed between and connected to the upper portions of the bowed members.

1,422,002. CONVEYER. ARTHUR L. SHAW, Chicago, Ill., assignor to Chicago Automatic Conveyor Co., a Corporation of Illinois. Filed Nov. 22, 1920. Serial No. 425,619. 4 Claims. (Cl. 199—204.)

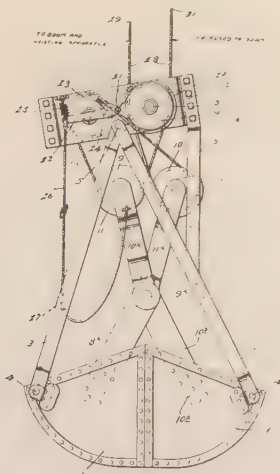


1. A conveyer having a traveling belt; continuing supports for the edge of the belt; a flexible guide having its lower edge resting on the margin of the belt and extending upwardly and outwardly therefrom, and means preventing lateral movement of the guide away from the belt.

1,422,003. SINGLE-LINE GRAB-BUCKET CONSTRUCTION. ARTHUR M. SHEARER, Indiana, Pa. Filed July 23, 1920. Serial No. 398,368. 8 Claims. (Cl. 37—80.)

1. In a single-line grab bucket construction, the combination of a head, swinging bucket sections connected with and suspended therefrom, sheaves connected with the bucket sections, drums and pulleys carried by the

head, brake means also carried by the head and connected with one of the bucket sections and a single looped

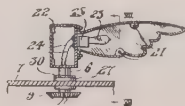


line or cable suspending the head and bucket sections and engaging the sheaves, drums and pulleys, said head suspended by said looped line.

1,422,004. PROCESS OF OBTAINING ALUMINA. RALPH S. SHERWIN, East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 16, 1914, Serial No. 812,594. Renewed Apr. 3, 1919. Serial No. 287,347. 13 Claims. (Cl. 23—13.)

10. In the leaching of sintered unfused alumina-silica-lime-soda mixtures, the step of heating to not above 200° F., such a sintered mixture and an alkaline solution of a sodium compound.

1,422,005. DIRECTION INDICATOR FOR MOTOR VEHICLES. FRANK SKARZYSKI, Rochester, N. Y. Filed Oct. 20, 1921. Serial No. 509,007. 4 Claims. (Cl. 116—48.)

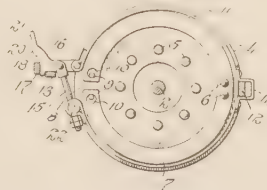


1. In a direction indicator for motor vehicles, a vertical shaft journaled for rotation and having a housing fixed upon the upper end thereof, a lamp socket mounted upon the exterior of one of the side walls of said housing and having an incandescent lamp therein, feed wires for said socket extending through the housing and shaft, means operatively connected to the lower end of the shaft for manually rotating the latter, and a hollow transparent indicator member having a flanged wrist portion secured against said side of the housing and having an open end into which the lamp and socket project.

1,422,006. FRICTION BRAKE. GEORGE L. SMITH, Washington, D. C. Filed Apr. 3, 1920. Serial No. 371,017. 9 Claims. (Cl. 188—77.)

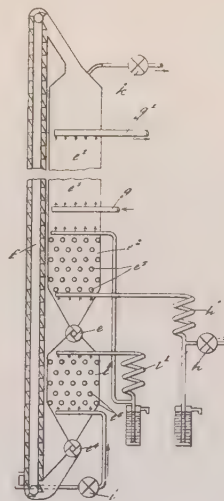
1. In a brake structure, the combination of a rotatable member, a compressible resilient and initially compressed

brake element fixed to said member and tending to overcome compression thereof by the action of centrifugal



force thereon due to rotation of the member, and a second brake element engageable with the first element to further compress the latter.

1,422,007. METHOD OF STRIPPING THE ILLUMINANTS FROM AND OF PURIFYING COAL GAS BY MEANS OF CHARCOAL. FREDERICK SODDY, Aberdeen, Scotland. Filed Apr. 11, 1919. Serial No. 289,352. 11 Claims. (Cl. 48—197.)

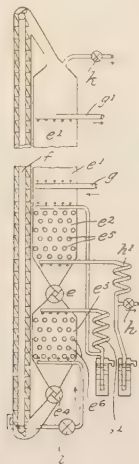


1. A process of treating coal-gas to separate methane, carbon monoxide and hydrogen on the one hand from naphthalene, benzene, ethylene and other illuminants on the other hand which process consists in relatively moving in contact with each other coal-gas and charcoal which is not cooled substantially below the ordinary temperature.

1,422,008. APPARATUS FOR PURIFYING COAL GAS. FREDERICK SODDY, Oxford, England. Filed Aug. 6, 1920. Serial No. 401,696. 3 Claims. (Cl. 48—178.)

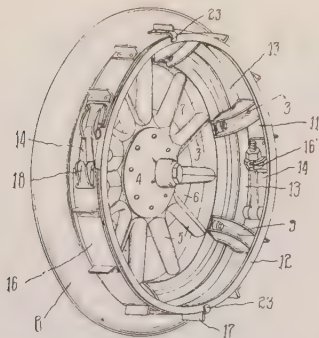
1. Apparatus for treating coal-gas to separate the non-illuminant hydrocarbon and other gases from the illuminants, comprising a container, a heated chamber, a cooled chamber and a chamber which is neither heated nor cooled in the said container, means for circulating charcoal successively through the heated chamber, the cooled chamber

and the chamber which is neither heated nor cooled, means for passing coal-gas through the last-named cham-



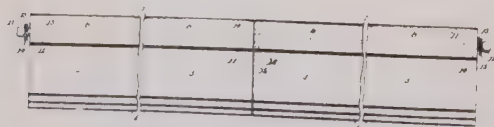
ber in counter-current to the charcoal and means for withdrawing gas from the heated chamber.

1,422,009. DRIVING CLEAT MECHANISM FOR MOTOR-VEHICLE DRIVING WHEELS. ALFRED T. STURT, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Dec. 4, 1919. Serial No. 342,387. 3 Claims. (Cl. 301-39.)



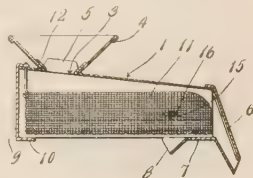
3. In a vehicle wheel, a cylindrical rim having an opening therein, an abutment secured to the inner surface of the rim adjacent said opening, a cleat supporting strip having a hook at one end adapted to engage an edge of said opening, means on the other end of the strip extending through the opening and engaging said abutment, said means comprising a bolt and nut whereby the strip may be tightened upon the rim.

1,422,010. RAILWAY-TRACK CONSTRUCTION. ANTON TAUCHAR, Dunlo, Pa. Filed Dec. 31, 1921. Serial No. 526,086. 5 Claims. (Cl. 238-135.)



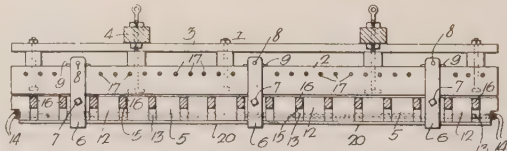
1. As an article of manufacture, a rail section having a longitudinal bore opening at opposite end faces of the rail section, the bore of the rail section at the ends of the latter being enlarged and internally threaded.

1,422,011. ASH SIFTER. RICHARD A. THIEDE, Camden, N. J. Filed Nov. 11, 1920. Serial No. 423,429. 1 Claim. (Cl. 83-60.)



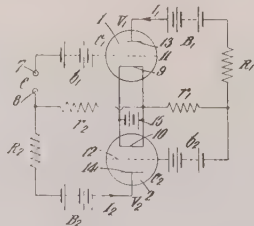
An ash sifter comprising a channel-shaped casing having an upper wall and side walls, the lower portions of the side walls being bent laterally to provide supporting flanges for resting upon the open upper end of a receiving receptacle, the upper wall of said casing having an inlet opening, a plate closing the rear end of the casing and having its lower end portion extending beneath the casing for resting upon the receptacle, a downturned discharge spout closing the forward end of the casing and having an extension extending beneath the casing for resting upon the receptacle, the extension being provided with a deflected lip for extending into the receptacle, and means in the casing for receiving ashes and after sifting the ashes passing resulting cinders through the discharge spout.

1,422,012. YARN RACK. WALTER S. TRICKETT, Groveville, N. J., assignor to Hussion Dyeing Machine Company, Groveville, N. J., a Corporation of New Jersey. Filed Jan. 7, 1922. Serial No. 527,596. 5 Claims. (Cl. 8-19.)



1. The combination in a yarn rack, of a main frame; bottom members located under the sides of the main frame; means for detachably securing the bottom members to the main frame, said bottom members being made in sections, some of said sections being notched; and means for securing the sections together.

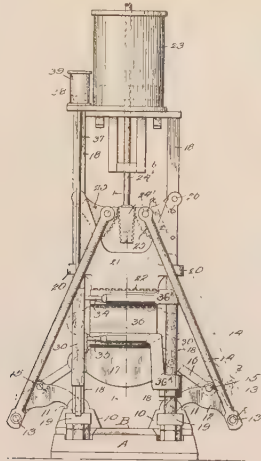
1,422,013. THERMIONIC APPARATUS APPLICABLE FOR WIRELESS TELEGRAPHY AND OTHER PURPOSES. LAURENCE BEDDOME TURNER, Cambridge, England. Filed Feb. 6, 1920. Serial No. 356,626. 6 Claims. (Cl. 250-8.)



1. In thermionic apparatus, the combination of a plurality of ionic tubes, each having a filament, a grid and an anode, connections including sources of current between the anode of one tube and the grid of a second tube in said apparatus, and between the anode of said second tube and the grid of said first mentioned tube, and a common branch connection including high ohmic resistances in the anode and grid circuits of both of said tubes,

whereby the anode of one tube and the grid of the second tube in said apparatus are connected, and the anode of said second tube and the grid of the first mentioned tube are connected to form a closed circuit cascade system.

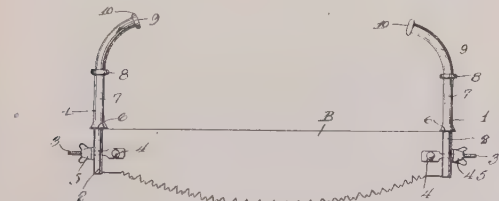
1,422,014. COTTON COMPRESS. FRANK L. WHITE, Memphis, Tenn. Filed Sept. 16, 1919, Serial No. 324,141. Renewed Apr. 25, 1922. Serial No. 556,543. 8 Claims. (Cl. 100—19.)



1. In a press having upper and lower platens and hinged gates forming two sides of a press chamber, a high-density attachment comprising a reciprocable wedge and actuating means therefor, said wedge being disposed adjacent the free ends of the gates and reciprocable parallel to the axis thereof, said gates having projections on their free ends projecting into the range of action of said wedge and engaged by the latter to impart additional closing motion thereto.

8. A cotton compress comprising a base and spaced columns rising therefrom; upper and lower platens; gates hung on said columns and coacting with the platens to form an enclosed baling chamber; curved levers pivoted on the base having hocket bearings in an intermediate portion and links mounted in said bearings and pivotally connected to the lower platen; lifting rods connected to the outer ends of the curved levers; curved cams pivotally-mounted above the baling chamber and to the upper portions of which the upper ends of the lifting rods are connected; a steam cylinder and piston rod; a rack-head on the lower end of the piston rod between the curved faces of said cams, said head having tapering sides provided with teeth and the curved faces of the cams having teeth engaged thereby; and a high-density attachment comprising a fluid-operated wedge for imparting further closing motion to a previously closed gate and thereby further compressing the material in the press-chamber.

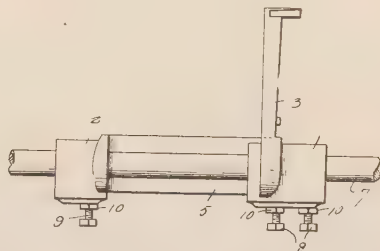
1,422,015. CROSSCUT-SAW HANDLE. JOSEPH F. WILLIAMS, De Funiak Springs, Fla. Filed Apr. 1, 1921. Serial No. 457,726. 2 Claims. (Cl. 145—108.)



2. A saw blade handle comprising a straight shank having one end secured to the saw blade, the said

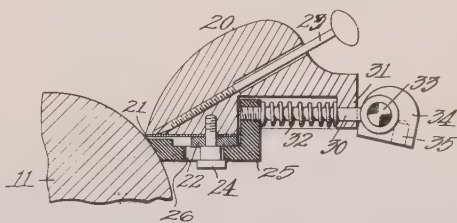
straight portion of the shank extending considerably above the upper edge of the saw to provide a straight hand grip, an annular flange formed on the upper end of the straight hand grip, a curved hand grip extending from the said flange and curved toward the opposite end of the saw blade, the said curve being substantially quarter-circular, and a knob formed on the terminal of the said curved hand grip.

1,422,016. LOOM ROCK-SHAFT BEARING. JAMES A. WIX, Goldville, S. C. Filed May 25, 1921. Serial No. 472,398. 1 Claim. (Cl. 139—67.)



A loom rock shaft bearing comprising a pair of boxes having elongated and vertically disposed openings, blocks adjustable in said openings and engaging and forcing a rock shaft against the upper walls of the openings, a horizontally disposed U-shaped frame connecting the boxes, and a vertical arm formed on one of the boxes and adapted to be secured to the frame of a loom, said arm having projections and slots and the latter adapted to receive projections on the loom frame and the former to fit in depressions on said frame to prevent the arm from moving relatively to the frame.

1,422,017. PAGE CUT-OFF DEVICE FOR INK FOUNTAINS. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Dec. 19, 1917, Serial No. 207,976. Renewed Dec. 16, 1921. Serial No. 522,953. 11 Claims. (Cl. 101—365.)

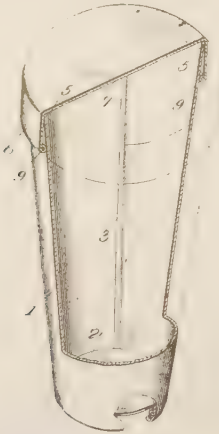


1. In an ink fountain containing a feed roll and regulating blade, a plurality of means operative between the surface of the ink and the blade for shutting off the supply of ink to different parts of the blade, said means abutting against each other at their side edges and constituting a continuous series throughout the length of said blade.

1,422,018. PAPER-MATERIAL CONTAINER AND THE LIKE. WILBUR L. WRIGHT, Fulton, N. Y., assignor to Sealright Co., Inc., Fulton, N. Y., a Corporation of New York. Filed June 19, 1918. Serial No. 240,815. 9 Claims. (Cl. 229—43.)

1. A paper can have a tapered body for nesting, the mouth of said can being at the tapered large open end thereof, said body being flexible and having its top edge crimped downwardly around said open end, in combina-

tion with a slip paper cover for closing said large open end of the body, said cover having a deep substantially-straight resilient flange at its free end forming a rolled

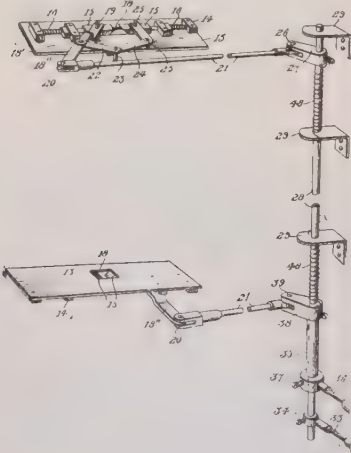


or crimped edge to cooperate with the large top edge of the body and with a portion of the body below said edge.

1,422,019. ALLOY OF REFRACTORY METALS AND PROCESS OF FORMING SAME. JOHN ADAM YUNCK, South Orange, N. J. Filed Jan. 17, 1913. Serial No. 742,711. Renewed July 14, 1921. Serial No. 434,817. 7 Claims. (Cl. 75—1.)

1. An alloy for use in making metal filaments and the like, composed of at least 95 per cent of metallic tungsten and the rest pure thorium.

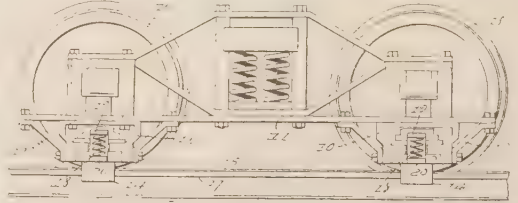
1,422,020. SASH-LOCKING DEVICE. JOHN ZAK, Bergholz, Ohio. Filed July 6, 1921. Serial No. 482,674. 2 Claims. (Cl. 292—33.)



1. A sash locking device comprising a vertical rock shaft provided with means for mounting the same in a window frame and having an arm fixed upon the upper end portion thereof, a tubular rock shaft surrounding the first named rock shaft and rotatable relative thereto, an arm fixed upon the upper portion of said tubular rock shaft, locking devices provided with means for mounting the same within the upper and lower members of the window frame and normally yieldingly held in locking position, means operatively connecting each of said arms with one of said locking devices, and means to inde-

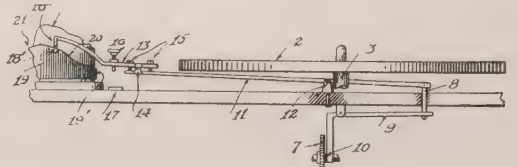
pendently rock either one of said shafts relative to the other including a handle upon the lower portion of each shaft adapted to extend inwardly through the wall of the dwelling.

1,422,021. DERAILING GUARD. FRANK ZEIS, Trenton, N. J. Filed Apr. 23, 1921. Serial No. 463,753. 3 Claims. (Cl. 104—246.)



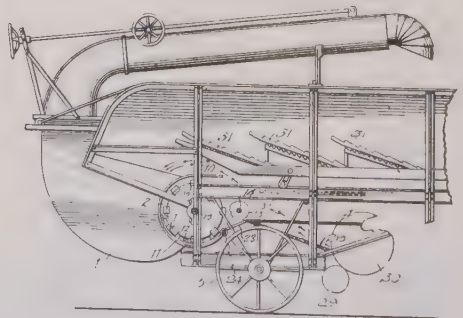
2. A derailing guard having a hanger for attachment to the bottom of a truck frame and a spring supported follower mounted for vertical movement in the hanger and provided with a depending inwardly directed foot for terminal arrangement beneath the outer side of a rail head, the shank portion of said foot being fitted with vertical anti-friction rollers for contact with the edge of the rail head.

1,422,022. SOUND RECORDING AND REPRODUCING MACHINE. WILLIAM E. BIRKET, Peoria, Ill. Filed Mar. 25, 1921. Serial No. 455,529. 12 Claims. (Cl. 274—1.)



1. In combination with the tone-arm and governing means of a sound recording and reproducing machine, mechanism interposed between the said tone-arm and governing means directly engaging both adapted in the movement of the tone-arm to control the action of said governing means.

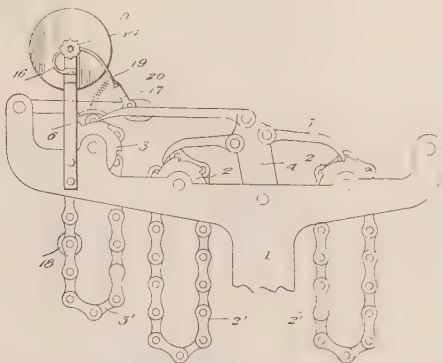
1,422,023. THRASHING MACHINE. EDD BOE, Clearbrook, Minn., assignor of one-fourth to Irvin Dewitt Kretser, Clearbrook, Minn., one-fourth to Dustin Wallace McNabb, Winnipeg, Canada, and one-fourth to Edwin Archer Halsey, Clearbrook, Minn. Filed Aug. 20, 1920. Serial No. 404,387. 5 Claims. (Cl. 130—27.)



1. In a thrashing machine, means for thrashing grain, including a chaffer, a sieve parallel to and spaced from said chaffer, an auxiliary thrashing means disposed be-

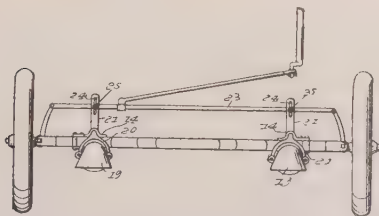
tween said chaffer and said sieve, said auxiliary thrashing means comprising a thrashing cylinder having a plurality of teeth mounted thereon, a concave having a plurality of teeth disposed between the teeth of said thrashing cylinder, whereby grain is drawn through the teeth of said concave by the teeth of said thrashing cylinder, thus thrashing the grain, and means for returning the grain threshed by said auxiliary means to said chaffer and means being adapted to feed the grain to said first named means.

1,422,024. REGISTER. JAMES SAMUEL BOYD, Spray. N. C. Filed Sept. 28, 1920. Serial No. 413,386. 3 Claims. (Cl. 235—91.)



1. In combination with the control cylinder of a loom, a register and means for operating the same by a part on the chain of said cylinder.

1,422,025. DIRIGIBLE HEADLIGHT. ALVEY L. BROGDEN, Abbeville, S. C. Filed Oct. 26, 1921. Serial No. 510,426. 2 Claims. (Cl. 240—62.)

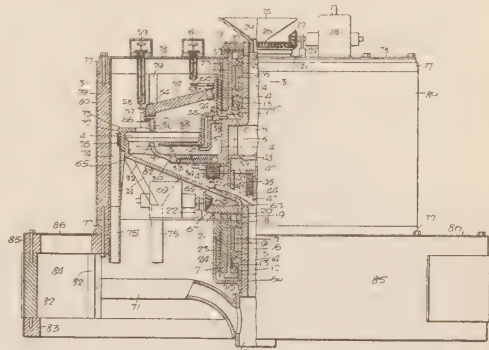


1. A dirigible headlight attachment for automobiles having standards and means for attaching the same at their lower ends to the front axle of the vehicle and provided at their upper ends with bearing sleeves, bearings for registration with said bearing sleeves having means for attachment to the front axle, lamp carrying posts mounted revolubly in said bearing sleeves and bearings, and means for communicating motion from the steering bar of the vehicle to said posts and consisting of operating arms carried by the posts and terminally actuatable by said steering bar, the bearings for the lower end of each post consisting of a bearing sleeve and a step bearing, and said operating arm being extended from the post between the same.

1,422,026. PROCESS AND APPARATUS FOR ELECTROSTATIC SEPARATION OF FINELY-DIVIDED DISCRETE MATERIAL. GEORGE RUDSTON BROWN, Bondi, near Sydney, New South Wales, Australia, assignor to Electrostatic Separation Company, Limited, Sydney, New South Wales, Australia, a Company registered according to the laws of the State of New South Wales, in the Commonwealth of Australia. Filed Jan. 7, 1920. Serial No. 349,975. 28 Claims. (Cl. 23—49.)

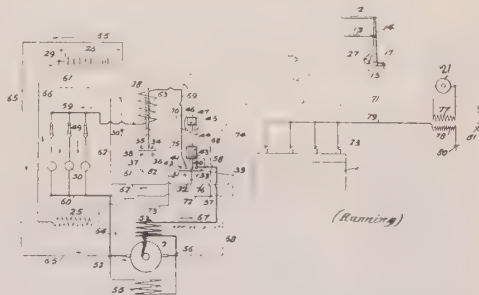
1. Process for electrostatic separation of finely divided discrete material wherein the material dried and hot is

centrifugally cast against an electrode whereby its particles of comparative electrical conductivity become electrically charged and are thrust through one zone of an electrostatic field of force between said electrode and another electrode and to a second zone of said field of



force where they are momentarily sustained more or less free of the force of gravity as they centrifugally travel through said second zone to a point of discharge, while particles of insuflcient electrical conductivity by arrest of centrifugal travel and by the force of gravity find another point of discharge, substantially as described.

1,422,027. AUTOMATIC ELECTRIC GENERATING UNIT. WILLIAM W. BUCHER, Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis., a Corporation of Wisconsin. Filed Mar. 20, 1919. Serial No. 283,910. 9 Claims. (Cl. 290—30.)

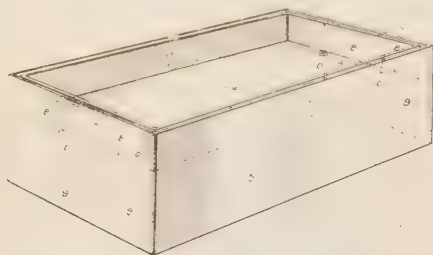


1. In combination with a gas engine operated generator, a storage battery and service mains, a control switch having a fine winding in circuit with the battery and the mains in order to be energized by a service demand, an engine ignition means in a circuit controlled by the control switch, a starting switch having a winding in a circuit also controlled by the control switch, a governor operated switch included in the last mentioned circuit, a motor circuit including the battery and the generator as a motor and controlled by the motor starting switch, a main switch having a winding connected in circuit with the generator and energized when the generator is driven by the engine, said control switch having a coarse wire winding in circuit with the mains and the generator and controlled by the main switch, said main switch having an interlock included in the starting switch winding circuit, and a charging resistance in circuit with the battery and the generator and controlled by the main switch.

1,422,028. BOX TRAY SUPPORT. WILLIAM L. BUEDIGEN, Milwaukee, Wis. Filed May 22, 1920. Serial No. 383,606. 3 Claims. (Cl. 248—20.)

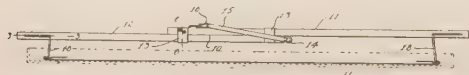
2. In a device of the class described, the combination with a box and a tray adapted to be supported therein and spaced from the bottom thereof, of means substan-

tially independent of the box and tray for readily removably supporting the tray within the box and including



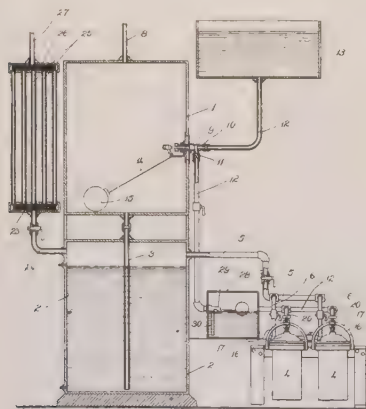
supporting legs resting upon the box bottom, an upper portion confined between the adjacent walls of the box and tray, and shelf means upon which the tray rests.

1,422,029. FILM HOLDER. WILLIAM S. BRACKNEY, Elizabethton, Tenn. Filed Sept. 18, 1920. Serial No. 411,078. 4 Claims. (Cl. 95—100.)



1. A film holder comprising an elongated body portion and pivotally mounted spaced film engaging members extending laterally from said body portion for detachable engagement with a film.

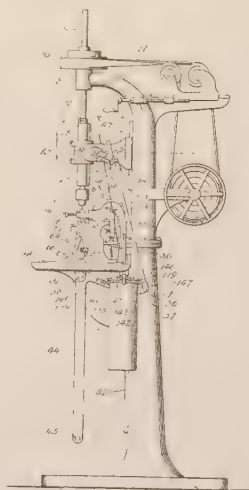
1,422,030. ACETYLENE-GAS-LIGHTING PLANT. DUNCAN CARMICHAEL, Ancoats, Manchester, England. Filed Dec. 26, 1919. Serial No. 347,392. 2 Claims. (Cl. 48—31.)



1. An acetylene gas plant, comprising a generator, a tank adapted to contain water, means for delivering gas from the generator to said tank above the water contained therein, a second tank connected to the lower portion of said first tank to receive water expelled from the first tank by gas pressure from the generator, a water supply pipe, a valve in said pipe, a sealed tank to receive water from said water supply pipe, a connection between said sealed tank and said generator and through which water passes to said generator, float-controlled means in said second tank for closing the valve in said water supply pipe when the water delivered to said second tank by the pressure of gas in the first tank reaches a predetermined level, and float-operated means in said sealed tank to govern the supply of water to said sealed tank

and from said sealed tank to the generator and operative to prevent the flow of water through the generator to said first-named tank and prevent back pressure of gas from the generator to the water supply means.

1,422,031. DRILLING MACHINE. THEODORE P. CAULKINS, Chicago, Ill., assignor to Edward T. Wray, Chicago, Ill. Filed Dec. 20, 1915, Serial No. 67,804. Renewed Nov. 24, 1917. Serial No. 203,866. 29 Claims. (Cl. 77—5.)



1. A machine of the character described, comprising, in combination, a primary source of power, a tool adapted to be actuated thereby, means for normally holding said tool in an inoperative position, a work support, work clamping means for clamping work thereon, tool feeding means, an actuator held normally in an inoperative position to be controlled by an operator, means for connecting said actuator with said work clamping means and means for connecting the same with said tool feeding means to bring said work clamping and tool feeding means into operation when said actuator is moved to an operative position.

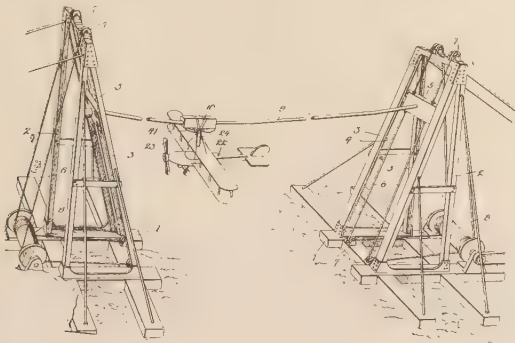
10. A machine of the class described, comprising, in combination, a power actuated tool, a work-support, a primary actuating lever, lever-actuated means for clamping the work upon said support, lever-actuated means for feeding the tool to the work, means for releasing the lever-actuated means when the operation is completed but before the end of the primary lever stroke, means for restoring the tool and the work clamping means to their respective normal positions, a sliding air actuated piston having a gage-stop thereon for discharging the work, and means, brought into action upon the latter part of the primary lever stroke upon the release of said first named lever-actuated means, for forcing air against said piston to discharge the work.

14. A machine of the class described, comprising, in combination, a work-support, work-clamping means for clamping work thereon, an actuator in operative connection with said clamping means to cause the clamping and releasing of the work, a gage for gaging the position of the work, a cylinder and piston, the latter of which is in operative connection with said gage, a source of compressed air, and means controlled by said actuator for admitting air under pressure to said cylinder for moving said gage to discharge the work.

1,422,032. AMUSEMENT DEVICE. FRANK CHAPMAN, Brooklyn, N. Y. Filed Mar. 27, 1922. Serial No. 547,300. 4 Claims. (Cl. 104—23.)

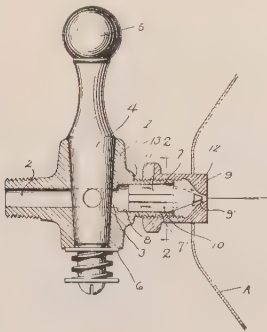
1. An aerial amusement apparatus, comprising in combination spaced derricks, carrier blocks adapted for vertical adjustment on the derricks, a supporting cable terminally

connected to the carrier blocks, a traveler adapted for traveling cooperation with the cable, a rod depending from



the traveler, an aeroplane car mounted for free rotary movement on the rod, and means for locking said car with respect to the rod.

1,422,033. GAS COCK AND JET PLUG THEREFOR. EMIL L. CLAUS, Milwaukee, Wis. Filed Oct. 16, 1920. Serial No. 417,361. 2 Claims. (Cl. 67—121.)



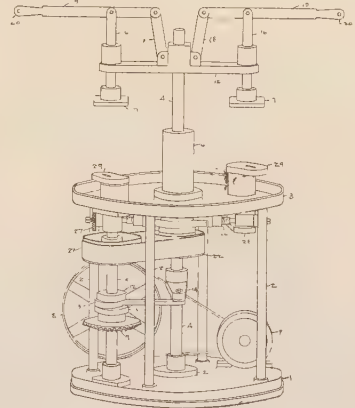
2. A gas cock, comprising a casing provided with an inlet and an outlet, valve means intermediate the inlet and outlet, a discharge nozzle surrounding the outlet and having a jet plug receiving bore, the outer end of said bore being slightly larger than the inner end portion and tapered theretoward, and a jet plug disposed in said bore, said jet plug including a relatively thin hollow shell, the main portion having longitudinal ribs forming channels whereby fluid may pass around the plug and the outermost diameter of said plug as defined by said ribs giving to have snug frictional engagement with the walls of said bore.

1,422,034. VEHICLE. JOSEPH W. COLLIER, Newark, N. Y., assignor to Arcadia Trailer Corporation, Newark, N. Y., a Corporation of New York. Filed May 14, 1921. Serial No. 469,729. 10 Claims. (Cl. 280—2.)



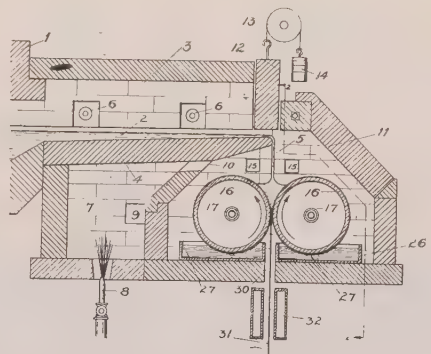
1. A vehicle frame having a side formed by two end bars and a center bar arranged below the end bars, the end bars and the center bar each having at least one horizontally presented flange, and plates secured to opposite ends of the center bar and to the end bars, said plates being shaped to engage the flange of the center bar and the flanges of the end bars.

1,422,035. GRINDER. CHARLES LEE COOK, Louisville, Ky. Filed Apr. 17, 1919. Serial No. 290,724. 11 Claims. (Cl. 51—26.)



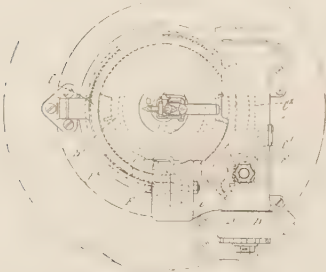
1. A plane surface grinder comprising a holder, means for giving said holder an oscillating movement in a plane parallel to the plane of the surface ground, and adjustable double eccentric means for setting the extent of either movement at any distance from zero to the sum of the throw of said eccentrics.

1,422,036. METHOD AND APPARATUS FOR PRODUCING SHEET GLASS. JOSEPH P. CROWLEY and CLIFFORD A. ROWLEY, Toledo, Ohio, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 17, 1921. Serial No. 437,660. 25 Claims. (Cl. 49—17.)



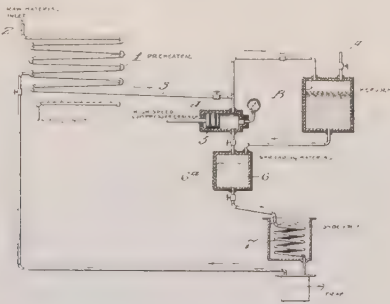
25. In an apparatus for continuously producing sheet glass, a source of molten glass, a pair of horizontal cylindrical metallic rollers having their cylindrical surfaces tinned, means for adjusting the rollers vertically and toward and from each other, means for internally cooling the rollers, means for rotating the rollers in opposite directions, a receptacle containing molten tin in which the lower portion of each roller revolves, means for flowing molten glass from the source into the trough between the rollers, the glass flowing through the slot formed by the contiguous surfaces of the rollers and emerging in the form of a downwardly moving sheet of glass, a heated chamber in which the rollers are located, having a slot in its lower side, and means for cooling the sheet as it emerges from the chamber.

1,422,037. ORDNANCE BREECH MECHANISM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Oct. 26, 1921. Serial No. 510,656. 9 Claims. (Cl. 8-20)



1. In ordnance breech mechanism, the combination with the breech screw, the swinging carrier in which said breech screw is mounted, and the axis pin of said carrier, of a breech screw withdrawing crank arranged to engage with the breech screw at a point substantially beneath the center line of the breech screw, a breech screw unlocking crank arranged with its axis in substantially the same horizontal plane as the axis of the withdrawing crank and means for operating said cranks from the carrier axis pin.

1,422,038. TREATMENT OF HYDROCARBON OILS. DAVID T. DAY, Washington, D. C. Filed June 17, 1919. Serial No. 304,749. 24 Claims. (Cl. 196-25.)

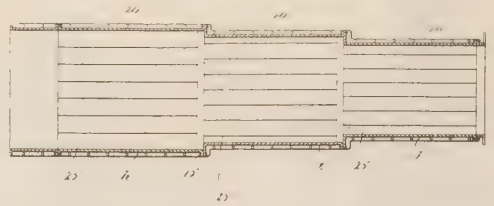


1. The process of producing hydrocarbon oils having low boiling points from hydrocarbon oils having high boiling points, which consists in vaporizing at least a part of the oil to be treated and immediately compressing the material so treated in a cylinder by the action of a sliding piston which moves substantially instantaneously to generate pressure and heat sufficient to heat and compress the vaporized material to the temperature and pressure of conversion.

1,422,039. DRUM FOR DRYING PULP AND THE LIKE. CHARLES L. DEAN, Denver, Colo., assignor to Stearns-Roger Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Mar. 24, 1920. Serial No. 368,325. 9 Claims. (Cl. 34-6.)

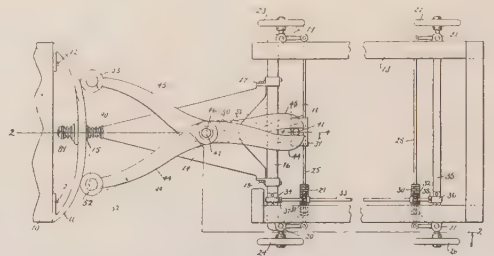
8. A sectional drying drum embracing longitudinal tubular sections fastened end to end each section comprising a demountable shell consisting of peripheral sectors detachably secured together and a series of partition plates secured inside the sectors, means for supporting

said partition plates in properly spaced relationship the plate nearest the diametric plane of the section being



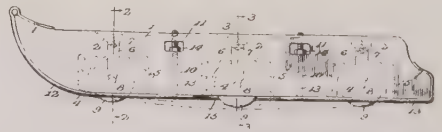
extended to project between the longitudinal edges of two adjacent sectors to be held between them for support when the drum is assembled, substantially as described.

1,422,040. TRAILER-STEERING DEVICE. REUBEN H. DE LAUNTY, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,725. 10 Claims. (Cl. 280-33.5.)



1. In a trailer steering device, in combination, a truck having an arcuate extension at its rear end, a trailer having steerable wheels, and means slidably engaging said arcuate extension operative upon lateral change of angular relation between the truck and trailer for steering said wheels.

1,422,041. VEHICLE SLED. THOMAS W. DINNING and EARL H. CLYMER, Renton, Wash. Filed Feb. 23, 1921. Serial No. 447,344. 5 Claims. (Cl. 280-9.)

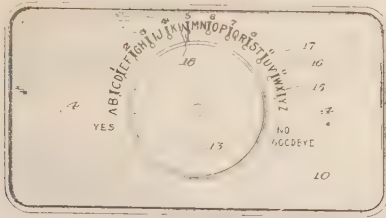


4. A wheel vehicle and sled comprising a body having side members, wheels mounted in the side members and extending below the lower edge of the side members, runners having their ends secured to the edge of the said side members, standards secured to the runners and extending through the bores formed in the side members, and means engaging the standards to project the runners below the plane of the lower peripheries of the wheels.

1,422,042. GAME BOARD. JOHN R. DONNELLY, Fairfield, Me. Filed Apr. 30, 1921. Serial No. 465,785. 1 Claim. (Cl. 46-41.)

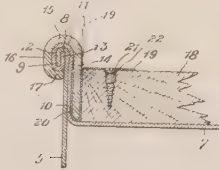
A ouija board comprising a board proper having a circular groove, a rotary finger engaging member arranged centrally of said board and having an annular groove on the under side thereof, ball bearings arranged in said grooves, letters of the alphabet arranged upon

the board proper and in concentric relation to said rotary member, numerals arranged adjacent said letters in a similar relation, other indicia arranged upon said board,



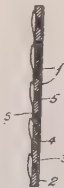
and a pointer projecting from the periphery of the rotary member and cooperating with all the indicia upon said board for the purpose specified.

1,422,043. REMOVABLE FALSE HEAD FOR METALLIC CONTAINERS. CHARLES T. DRAPER, Cleveland, Ohio, assignor to The Draper Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 15, 1920. Serial No. 365,722. 8 Claims. (Cl. 220—67.)



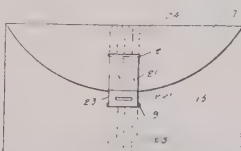
1. A sheet metal container having a recessed metallic head, a reinforcing hoop or ring entering said recessed head, a wooden false head removably positioned within the recessed head, and means connected with said hoop for removably retaining the false head in position.

1,422,044. MOUNT FOR ARTIFICIAL TEETH. HERBERT A. EDWARDS, London, England. Filed June 23, 1921. Serial No. 479,894. 2 Claims. (Cl. 211—34.)



1. A mount for artificial teeth comprising a support, a series of sectional mount strips carried on said support having recesses therein longitudinally of each strip, said recesses being filled with a plastic material to receive the artificial teeth and said strips being partially severed by a weakening therebetween to allow of each of the latter being removed from the series of strips as required.

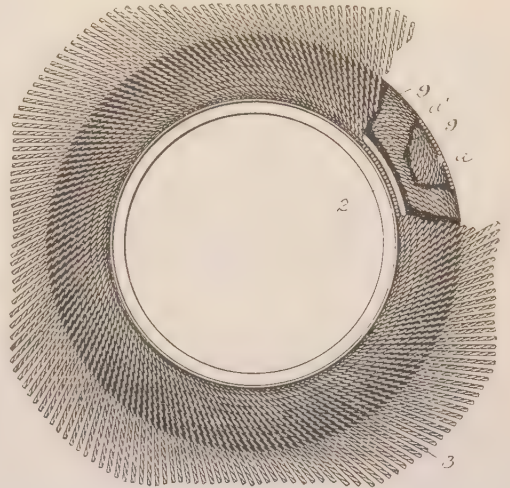
1,422,045. LOCK-SEALED ENVELOPE. MICHAEL H. FLAHERTY, Philadelphia, Pa. Filed May 26, 1920. Serial No. 384,389. 2 Claims. (Cl. 229—82.)



1. An envelope having a slot through a wall thereof, a sealing member for a closure flap of the envelope

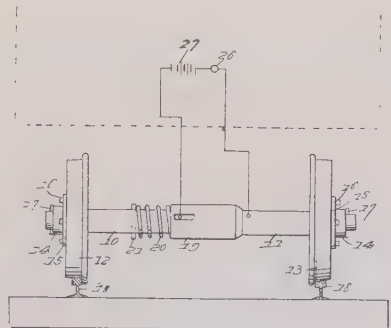
insertable through said slot and containing an application of adhesive for disposition within the envelope, said sealing member having a slot therethrough to remain exposed and unobstructed exteriorly of the envelope when the latter is closed to facilitate application of a moistening means therethrough to said adhesive.

1,422,046. METHOD OF FORMING TIRES. WILLIAM G. FORDING, Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 30, 1916. Serial No. 106,759. 36 Claims. (Cl. 154—14.)



1. The method of making a tire carcass which comprises passing a circumferential series of separately supplied strands back and forth from one side of a tire-forming support to the other so as to form a plurality of successive layers.

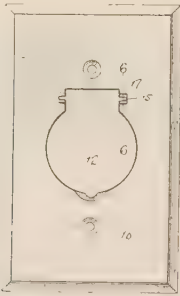
1,422,047. RAILWAY-TRACK INDICATOR. FRANK GARAGNANT, Herrin, Ill. Filed July 14, 1921. Serial No. 484,661. 3 Claims. (Cl. 246—121.)



1. An apparatus for the purpose described having relatively movable axle members carrying rail traversing wheels and a signalling device having inside and outside contacts of which the elements are movable respectively by said axle members and are included in circuit with a

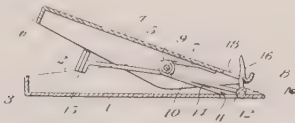
signalling unit and a source of electrical energy, said contacts being housed in a sleeve arranged in telescoping relation with the axle members.

- 1,422,048. HINGE JOINT. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 6, 1921. Serial No. 520,242. 4 Claims. (Cl. 16—128.)



1. A hinge joint comprising a plate, a door struck therefrom, and hinge means uniting said door and plate, said hinge means comprising integral lugs on one of said members and cooperating recesses in the other of said members in which said lugs are received and journaled substantially in the plane of the plate.

- 1,422,049. TRAP. GEORGE M. GOULD, Madison, S. Dak. Filed Nov. 26, 1921. Serial No. 517,991. 1 Claim. (Cl. 43—82.)

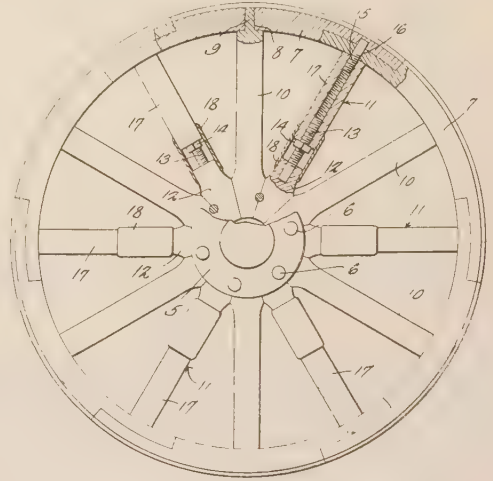


A mouse trap including a base having a flanged outer end and flanged sides, a jaw having a flanged outer end and flanged sides which are received between the sides of the base and which are pivoted thereto, spring means influencing the jaw to closed position, a wire member having its outer end coiled upon itself to provide a bait box and having an angle end which is journaled in a bearing at the rear of the base and which has a notched angle extension providing a trigger, the body of the jaw having a slot to receive therethrough the trigger when the jaw is swung to open position on the base and when turned to one position, incident to the weighted bait holding end of the wire member to swing the latter to cause the notch of the trigger to engage with the said wall of the opening in the jaw.

- 1,422,050. AUTOMOBILE WHEEL. DAVID S. GREENBERG, Warren Point, N. J. Filed Jan. 16, 1922. Serial No. 529,654. 3 Claims. (Cl. 301—67.)

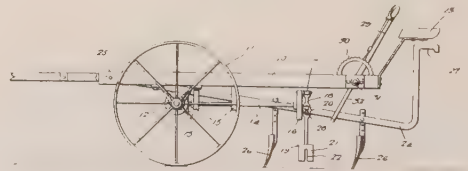
1. In a wheel, a sectional felloe, the adjacent sections of the felloe overlapping, a hub including plates, spoke members having connection with the sections at points intermediate their ends, and adjustable spokes disposed

between the first mentioned spoke members and having connection with the sections of the felloe for securing



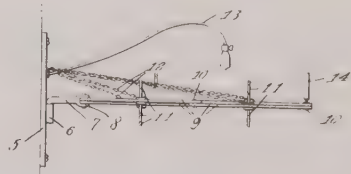
the sections together, and the inner ends of said spoke members being positioned between the plates of the hub.

- 1,422,051. COTTON CHOPPER. FURNEY C. HALL, Hartsfield, Ga. Filed June 21, 1921. Serial No. 479,270. 4 Claims. (Cl. 97—45.)



1. A machine of the character described comprising a frame, ground wheels journaled on said frame, a hoe mounted for oscillatory movement, means actuated by one of the ground wheels for controlling the movements of said hoe, cultivator beams pivoted at the forward end of the machine and arranged in spaced parallel relation, the opposite ends of the beams being extended to provide handles whereby the beams can be conveniently raised or lowered, and means including a lever whereby the said beams can be adjusted simultaneously and held in any given position for the purpose specified.

- 1,422,052. WALL ATTACHMENT. HARRY C. HANSON, Minneapolis, Minn. Filed Jan. 7, 1921. Serial No. 435,678. 1 Claim. (Cl. 45—13.)

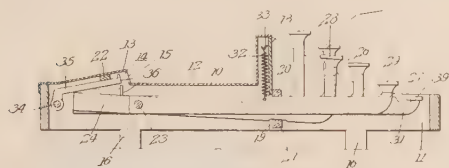


In a device of the character described, a base having a tubular portion formed integral therewith, a supporting arm, having a right angled extremity, adjustably supported within the tubular portion, a body portion including bars pivotally connected at their ends, hooks

secured to the bars, supporting chains having connection with the bars, and said supporting chains having their inner ends connected to the base to secure the body portion in a horizontal position.

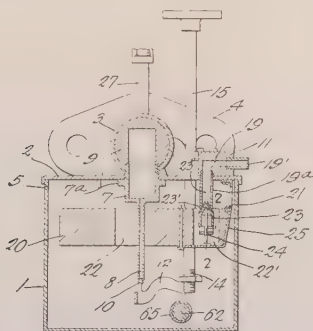
1,422,053. TYPEWRITING-INSTRUCTION MACHINE.

OSCAR J. HANSON, Fargo, N. Dak. Filed Nov. 22, 1920. Serial No. 425,780. 1 Claim. (Cl. 35-16.)



A device of the character described comprising a casing having an upwardly extending channel shaped forward portion and an upwardly offset rear portion having an inclined front wall formed with a longitudinal slot, a frame below the casing, a plurality of type bars pivoted at their rear ends within the frame, a plurality of levers pivoted within the frame and having their rear ends engaging said type bars and their forward ends provided with keys, and springs connected with said levers and disposed within the channel shaped front portion of the casing, depression of a lever resulting in upward movement of the type bar associated therewith whereby the type will be visible through said slot.

1,422,054. CARBURETOR. WILLIAM A. HEIDE, Detroit, Mich. Filed June 26, 1917. Serial No. 177,087. 2 Claims. (Cl. 137-104.)

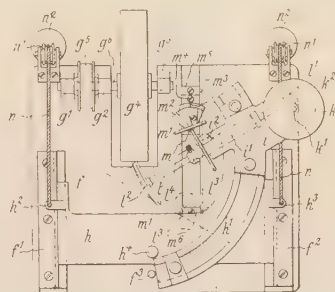


2. In a carburetor a fuel reservoir, a float mounted therein, a fuel conduit extending within the reservoir and disposed above the float, a pin extending upwardly from the float, a valve loosely mounted upon the pin and adapted to seat in the fuel conduit to close the same, and a U-shaped member mounted upon the pin and provided with inturned ends adapted to engage the valve to disengage the same from the fuel pipe upon the descent of the float.

1,422,055. MACHINE FOR GRINDING BEVELED RIM SURFACES ON SPECTACLE GLASSES. OTTO HENKER, Jena, Germany, assignor to the Firm of Carl Zeiss, Jena, Germany. Filed Aug. 8, 1918. Serial No. 249,032. 5 Claims. (Cl. 51-101.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L. 1313.)

1. In a machine for grinding beveled rim surfaces on spectacle-glasses a grindstone, a shaft rotatably disposed in a body and adapted to hold a spectacle-glass, guiding means allowing to displace during the grinding opera-

tion the grindstone and the shaft relatively to one another, these guiding means forming with the said shaft an angle which differs from 90°, and a cam coacting with a stop



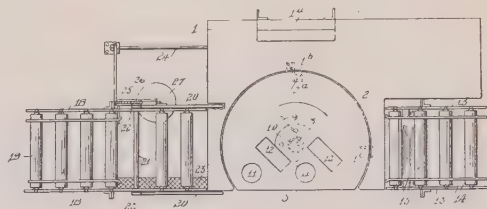
for limiting the relative displacement of the grindstone and the shaft, the angle contained by said stop and said guiding means being variable.

1,422,056. WINDOW-SHADE FIXTURE. GEORGE B. HOLLAND, Naugatuck, Conn. Filed July 25, 1921. Serial No. 487,493. 5 Claims. (Cl. 156-24.)



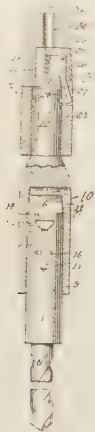
5. In a sheet metal bracket for window fixtures, an arm for supporting a tubular overdrapery-rod, said arm having an opening for receiving the end of a curtain rod and an integral tapered portion beyond said opening adapted to fit into said tubular overdrapery-rod.

1,422,057. APPARATUS FOR CASING CANS. CHARLES L. HOOPER, Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y., a Corporation of New York. Filed Apr. 19, 1920. Serial No. 374,925. 8 Claims. (Cl. 198-19.)



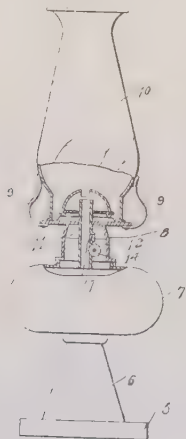
1. An apparatus used in casing cans comprising a table adapted to swing back and forth, a conveyor leading to the table, a fulcrum piece arranged adjacent to the delivery end of the table for facilitating the inversion of the cans on the table from their positions on the conveyor, means on the table cooperating with the tops of the cans for positioning a plurality of cans in abutment with each other, a conveyor leading from the table in line with the conveyor leading to the table, means for limiting the swinging movement of the table in both directions, means at the end of the receiving conveyor on which the encased cans are tilted from the table said means being movable for shifting the encased cans to an inverted position from that which they occupied on the table, and controlling means for the shifting means operable by an operative situated in front of the table.

1,422,058. TOOL HOLDER. VALENT HOVANEC, Ambridge, Pa. Filed Nov. 5, 1921. Serial No. 513,155. 2 Claims. (Cl. 279-77.)



1. A plurality of socketed tool holders of different sizes nested together, and means operable to lock a tool within the smaller tool holder and engageable by the next larger tool holder for preventing separation of the tool and the first named holder until said holders are separated, means carried by the larger tool holder to engage the smaller tool holder for retaining said tool holders nested and adapted to engage and retain a larger tool, said larger tool holder having a shank on one end thereof, and a further intermediate sized socketed tool holder adapted for snug reception of said shank, said last named tool holder being provided with means engageable with said shank to retain the latter within the socket thereof and to engage an intermediate sized tool for retaining the latter in said socket thereof.

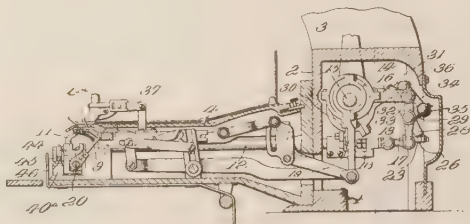
1,422,059. LAMP EXTINGUISHER. TRAVIS H. B. HOWARD, Como, Miss. Filed Apr. 27, 1920. Serial No. 376,934. 1 Claim. (Cl. 67-73.)



An extinguisher for a lamp of the wick type, in combination with the wick tube having an outwardly offset portion providing a recess in communication with the wick space of the tube, said portion having side walls, a squeeze plate completely disposed in said recess, rod portions extending from said plate above its horizontal center and journaled in said side walls so that the plate will of itself normally hang vertically and will seek the vertical after operation whereby movement of the wick in either

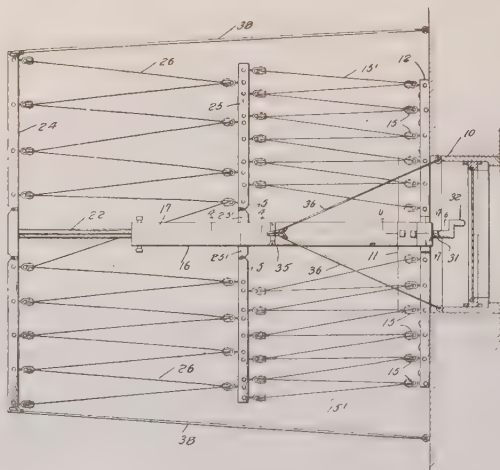
direction is unaffected by its presence, and one of said rod portions extending beyond the adjacent side wall for finger manipulation to move the plate into squeezing relation with the wick.

1,422,060. LOOPER MECHANISM FOR SEWING MACHINES. ROBERT R. HUGHES, JR., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 17, 1919. Serial No. 331,312. Divided and this application filed June 16, 1920. Serial No. 389,328. 11 Claims. (Cl. 112-200.)



1. In a sewing machine, a looper, means for supporting said looper whereby the same moves in a line substantially parallel with the line of feed and in a direction opposed to the feed as it enters the needle thread loop, means for moving the looper laterally, and means for oscillating said looper including an eccentric, a lever mounted on a swinging fulcrum and connected to said eccentric, and devices operated by said lever and connected to said looper for giving said looper an extended dwell at each end of its stroke and during the lateral movement thereof.

1,422,061. CLOTHES DRIER. WILLIAM C. HUGHES, New Haven, Conn. Filed Dec. 18, 1920. Serial No. 431,650. 7 Claims. (Cl. 68-34.)

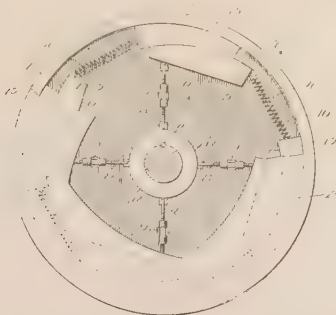


7. A clothes drier comprising a supporting bar adapted to be secured to a stationary support, a supporting frame mounted on said supporting bar, an adjustable drying frame mounted on said supporting frame, connections between said drying frame and said supporting bar, and means to adjust said drying frame on said supporting frame.

1,422,062. SELF-ADJUSTING CLUTCH. ARTHUR H. HUNT, Virgil, Kans. Filed Dec. 15, 1919. Serial No. 345,101. 3 Claims. (Cl. 192-37.)

1. In a friction clutch, the combination with a drive element and a driven element having a plate thereon, of

a sleeve slidably mounted for rotation with the drive element, wedge shaped shoes movably mounted between the drive element and driven element, pivoted wedges connected with the sleeve for engaging the shoes to transmit power from the drive to the driven element, the engaging faces of said shoes and wedges being tapered in



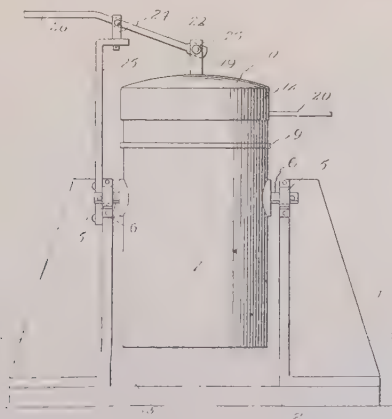
opposite directions, a screw adjusting rod between the sleeve and each wedge and pivoted at opposite ends to said sleeve and wedge respectively to form a thrust rod connection for adjusting the degree of contact between the wedges and shoes, and said plate on the driven element adapted to retain the shoes in position and prevent accumulation of dust thereon.

1,422,063. MOTOR-STARTING DEVICE. JOHN OTTO Q. JOHNSON, Modesto, Calif. Filed July 9, 1921. Serial No. 483,487. 2 Claims. (Cl. 74—106.)



1. A device for imparting movement from a rotary element to a crank, comprising a plurality of relatively adjustable elements for connection with the crank, one of said elements last named including a fork and a curved member passing around the bend of the crank, and having formed therein an angular opening for receiving the end of said rotary element.

1,422,064. SANITARY GARBAGE CAN. PATRICK KANE, Chicago, Ill. Filed May 2, 1921. Serial No. 466,179. 2 Claims. (Cl. 220—36.)



2. In a device as set forth, a rockably mounted receptacle, a removable cover thereon, said cover comprising

300 O. G.—10

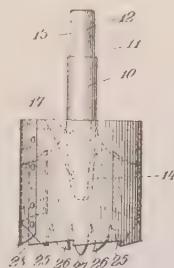
a shell, a stationary perforated disc carried by said shell and forming a bottom therefor, a rod connected to said stationary disc, a removable perforated disc rotatable on said rod to dispense a disinfectant into said receptacle, and a hand lever pivotally connected to said rod and mounted for pivotal movement by horizontal and vertical axes.

1,422,065. VULCANIZING APPARATUS. WILLIAM R. URQUHART, Los Angeles, Calif., and CLIFFORD W. POST, Akron, DWIGHT E. HUMPHREY, Cuyahoga Falls, and CLARENCE C. VAN ARSDALE, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 18, 1920. Serial No. 417,755. 35 Claims. (Cl. 18—4.)



1. An apparatus for treating rubber articles comprising, an oven, means for successively and continuously moving tire casings through the oven, and means for repeatedly circulating the same air through the oven.

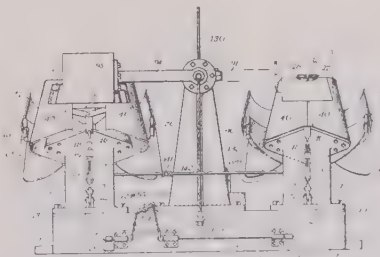
1,422,066. FRUIT CUTTING AND CORING DEVICE. GEORGE VAFIADES and JOHN KOUKOS, New York, N. Y. Filed June 27, 1921. Serial No. 480,637. 8 Claims. (Cl. 146—6.)



1. A fruit corer, comprising outer and inner toothed coring members having cutting edges deflected beyond the contours of said members.

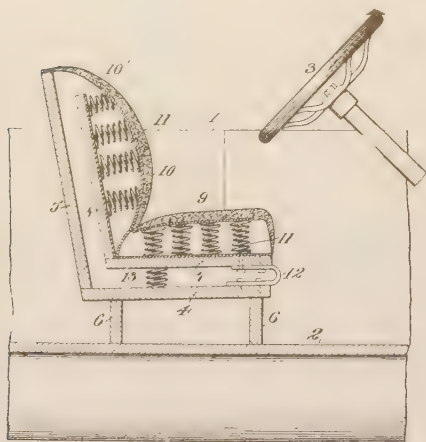
REISSUES.

15,395. SHIRT BOSOM AND BODY MACHINE. CECIL H. BOYLS, Louisville, Ky. Filed Nov. 19, 1921. Serial No. 516,486. Original No. 1,357,218, dated Nov. 2, 1920, Serial No. 380,488, filed May 11, 1920. 18 Claims. (Cl. 68—9.)



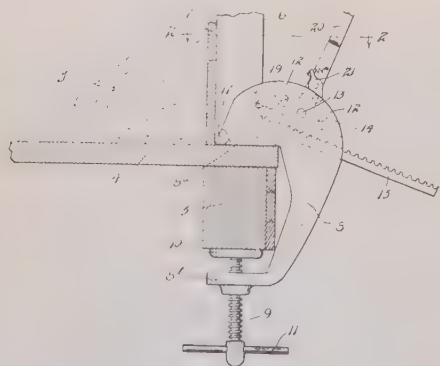
12. In a garment former device, a heat storing body and a stretcher member heated by and movable to and from the body.

15,396. AUTOMOBILE SEAT. JAMES H. MCCOLLOUGH, Jr., San Jose, Calif. Filed Sept. 27, 1921. Serial No. 503,616. Original No. 1,379,270, dated May 24, 1921, Serial No. 362,598, filed Mar. 1, 1920. 6 Claims. (Cl. 155—55.)



4. An automobile seat comprising a fixed bottom and back; a rigid L-shaped seat frame nested in and spaced from the fixed bottom and back; a connection between the bottom of the seat frame and the fixed bottom adapting the seat frame for oscillation about a horizontal axis; means for limiting the extent of said oscillation; a seat cushion carried by the bottom of the seat-frame, and a back cushion having its covering extending from the lower part of the back to the seat-frame over the top thereof and secured to the fixed back.

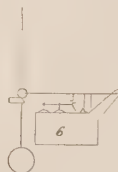
15,397. GRAIN-DOOR-FORCING DEVICE. WILLIAM H. MCGANN, Minneapolis, Minn. Filed June 1, 1922. Serial No. 565,565. Original No. 1,400,447, dated Dec. 13, 1921, Serial No. 407,052, filed Aug. 30, 1920. Reissue No. 15,306, dated Mar. 14, 1922, Serial No. 535,229, filed Feb. 6, 1922. 7 Claims. (Cl. 254—84.)



1. A grain door forcing device comprising a clamp having means for rigidly securing the same to a side sill and floor structure of a box car with its upper portion exposed in the door opening, a thrust plunger mounted on the upper portion of said clamp for movement

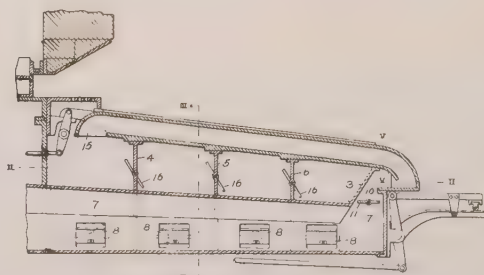
therethrough against a grain door applied in the door opening, and a manually operated power multiplying device applied to said clamp and operative on said plunger to force the same against a grain door.

15,398. CLOCK. WILLIAM O'LEARY, Belvedere College, Dublin, Ireland. Filed Apr. 15, 1922. Serial No. 553,220. Original No. 1,365,537, dated Jan. 11, 1921. Serial No. 276,149, filed Feb. 10, 1919. 18 Claims. (Cl. 58—124.)



13. An automatic regulating mechanism for clocks, comprising in combination with an oscillating member of a time piece, a device for imparting periodic impulses to said oscillating member, an independent time mechanism, and devices for releasing and resetting the said impulse device at predetermined periods by the said independent clock mechanism.

15,399. FURNACE. THOMAS A. PEEBLES, Pittsburgh, Pa. Filed Dec. 14, 1921. Serial No. 522,403. Original No. 1,338,694, dated May 4, 1920, Serial No. 218,246, filed Feb. 20, 1918. 17 Claims. (Cl. 110—74.)

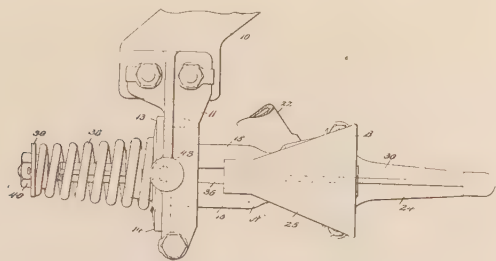


1. In a furnace the combination of spaced fuel supporting members, a plurality of chambers arranged transverse of and below the fuel supports and adapted to supply air to different portions of the bed of fuel on said supporting members, means for feeding heated air to the chamber underlying the portions of the fuel supporting members on which initial combustion occurs and means for supplying air to the other chambers.

15,400. AUTOMATIC TRAIN-PIPE CONNECTOR. JOSEPH V. ROBINSON, Morristown, N. J. Filed Mar. 5, 1921. Serial No. 450,063. Original No. 1,245,784, dated Nov. 6, 1917, Serial No. 781,194, filed July 25, 1913. Reissue No. 14,873, dated June 1, 1920, Serial No. 334,880, filed Oct. 31, 1919. 46 Claims. (Cl. 285—58.)

1. In an automatic train pipe coupling, the combination of a coupling head having an opening therethrough, a base, a member pivotally mounted on the base and carrying at one end a laterally extending tubular con-

duit which extends through the opening in said head and terminates approximately in the plane of the coupling face of the latter, said conduit being mounted directly upon said member, means for securing the conduit to the

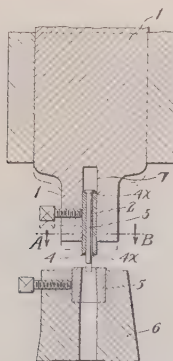


member, a projection near the other end of said member, and means for normally maintaining said projection in engagement with said base to yieldingly support said coupling head.

15,401. METHOD OF MAKING ROADS. LEONARD SCHADE VAN WESTRUM, Zurich, Switzerland. Filed May 20, 1921. Serial No. 471,260. Original No. 956,009, dated Apr. 26, 1910, Serial No. 489,662, filed Apr. 13, 1909. 4 Claims. (Cl. 94—23.)

1. The method of building roads which consists in mixing with the materials constituting the mineral aggregate in their natural condition an asphaltic cement whose base is hard bitumen in excess over fluxes and chemicals, and emulsified with an agent whose basis is water, and in spreading and compacting the mixture on a suitable foundation.

15,402. STAMPING MACHINE FOR CUTTING OUT ARTICLES FROM SHEET METAL. THOMAS HENRY WILSON, Bramley, Leeds, England. Filed June 4, 1921. Serial No. 475,174. Original No. 1,320,189, dated Oct. 28, 1919, Serial No. 300,381, filed May 28, 1919. 11 Claims. (Cl. 164—86.)



1. In a stamping machine for cutting out articles in the flat from sheet metal plates, the combination with a vertically reciprocating slide and a circular die, of a tubular punch or cutting tool carried by said vertically reciprocating slide, and a central pin depending below the base of the said tubular punch or cutting tool and being adapted to work in conjunction with the said circular die of the machine.

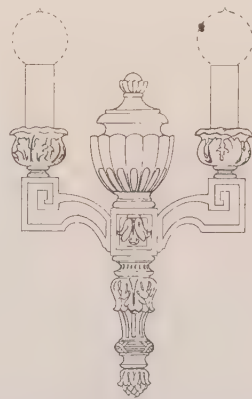
DESIGNS.

61,146. PRINCIPAL CENTRAL BODY OF A LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,548. Term of patent 14 years.



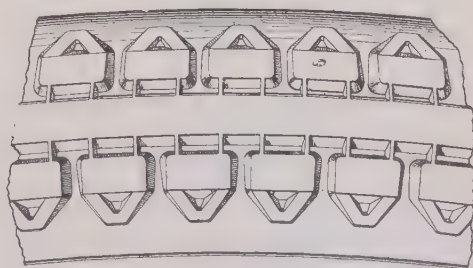
The ornamental design for the principal central body of a lighting fixture, as shown.

61,147. LIGHTING FIXTURE. HARRY C. ADAM, St. Louis, Mo. Filed Sept. 3, 1921. Serial No. 498,557. Term of patent 14 years.



The ornamental design for a lighting fixture, as shown.

61,148. PNEUMATIC-TIRE TREAD. HARRY S. BERLIN, Springfield, Ohio, assignor to The Victor Rubber Company, Springfield, Ohio, a Corporation of Ohio. Filed Oct. 8, 1921. Serial No. 506,526. Term of patent 14 years.



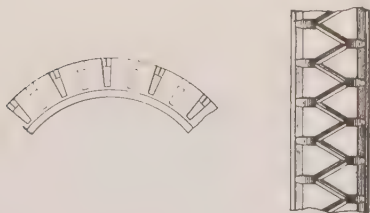
The ornamental design for a pneumatic tire tread, as shown.

- 61,149. TOY SHACKLE. JOSEPH EDMUND BLAKE, Gardner, Mass. Filed Jan. 9, 1922. Serial No. 123. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a toy shackle as shown.

- 61,150. SOLID-RUBBER TIRE FOR VEHICLES. HENRY H. BOUCHER, Los Angeles, Calif. Filed May 2, 1921. Serial No. 466,207. Term of patent 14 years.



The ornamental design for a solid rubber tire for vehicles, as shown.

- 61,151. EMBLEM, BADGE, OR BUTTON. ARTHUR E. CHASE, Toledo, Ohio, assignor to Grand Council of The Ladies' Oriental Shrine of North America, Wheeling, W. Va., an Association. Filed Mar. 4, 1922. Serial No. 1,046. Term of patent 14 years.



The ornamental design for an emblem, badge, or button, as shown.

- 61,152. TEXTILE FABRIC. WILLIAM DOWLING, New York, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1922. Serial No. 158. Term of patent 7 years.



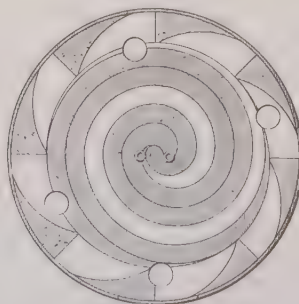
The ornamental design for a textile fabric, as shown.

- 61,153. DOLL PINCUSHION. MINNIE M. FARRELL, Kansas City, Mo. Filed Jan. 11, 1922. Serial No. 161. Term of patent 7 years.



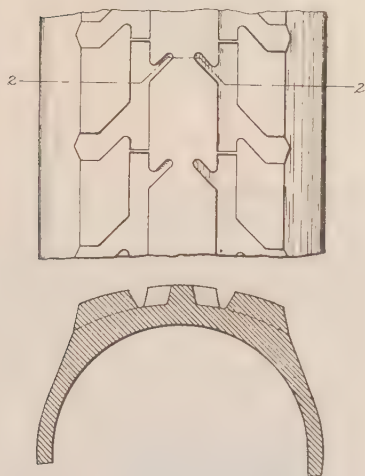
The ornamental design for a doll pincushion, as shown.

- 61,154. WHIRLIGIG TOY. HELEN M. FLETCHER, San Francisco, Calif. Filed Dec. 21, 1921. Serial No. 524,023. Term of patent $3\frac{1}{2}$ years.



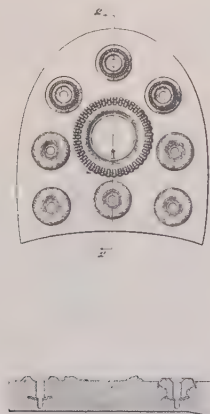
The ornamental design for a whirligig toy, as shown.

61,155. TIRE. ARTHUR A. FRANK, Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed July 6, 1921. Serial No. 482,849. Term of patent 14 years.



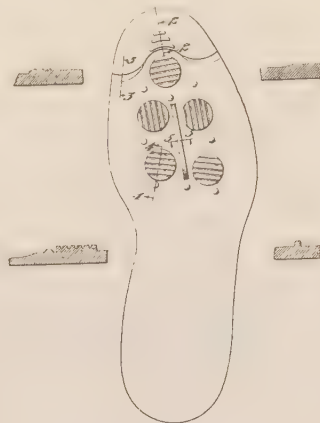
The ornamental design for a tire substantially as shown.

61,156. SHOE HEEL. DUDLEY FREEMAN, Roxbury, Mass., assignor to Panther Rubber Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts, Filed Mar. 11, 1922. Serial No. 1,130. Term of patent 14 years.



The ornamental design for a shoe heel as shown.

61,157. SOLE OR TAP. DUDLEY FREEMAN, Roxbury, Mass., assignor to Panther Rubber Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed Mar. 11, 1922. Serial No. 1,131. Term of patent 14 years.



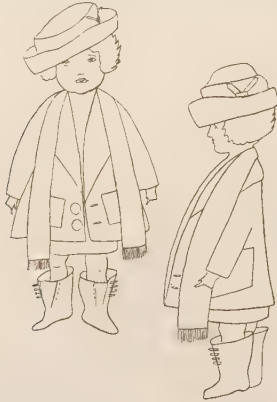
The ornamental design for a sole or tap as shown.

61,158. DOLL. AGNES P. HANDLEY, Oakland, Calif. Filed Feb. 15, 1922. Serial No. 707. Term of patent 14 years.



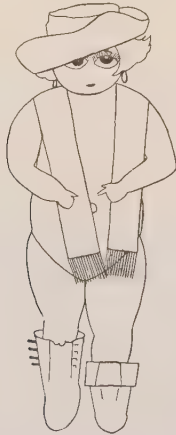
The ornamental design for a doll, as shown.

61,159. DOLL. JAMES A. HAYES, New York, N. Y. Filed Mar. 21, 1922. Serial No. 1,318. Term of patent 7 years.



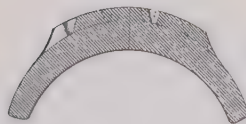
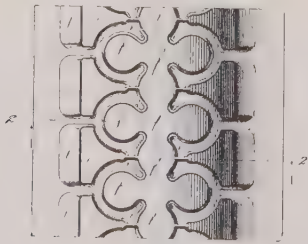
The ornamental design for a doll substantially as shown.

61,160. DOLL. JAMES A. HAYES, New York, N. Y. Filed Apr. 1, 1922. Serial No. 1,490. Term of patent 3½ years.



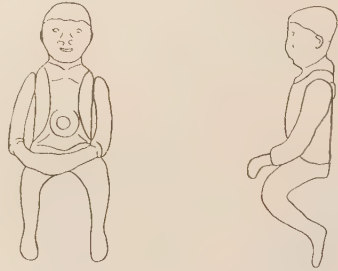
The ornamental design for a doll as shown.

61,161. TIRE. WILLIAM F. HOELZER, New Brunswick, and JOHN T. JOHNSON, Plainfield, N. J. Filed Oct. 19, 1921. Serial No. 508,879. Term of patent 14 years.



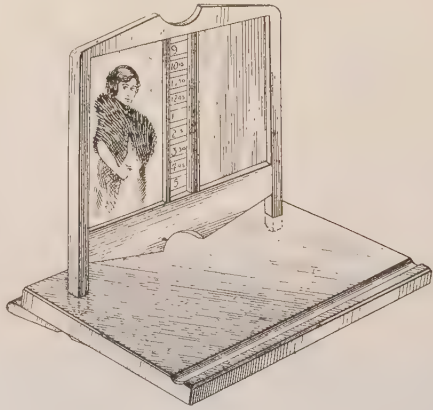
The ornamental design for a tire, as shown.

61,162. BROOMHOLDER. FRANCIS G. HOWE, Melrose, Mass. Filed July 1, 1921. Serial No. 481,953. Term of patent 14 years.



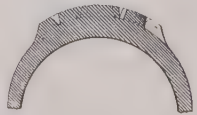
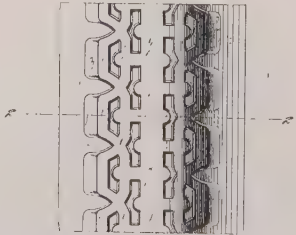
The ornamental design for a broom holder, as shown.

61,163. MEMORANDUM STAND. SIMON JAFFE, Montreal, Quebec, Canada. Filed Nov. 28, 1921. Serial No. 518,455. Term of patent 7 years.



The ornamental design for a memorandum stand, as shown.

61,164. TIRE. JOHN T. JOHNSON, Plainfield, N. J., assignor to Otto J. Kuhlke, Akron, Ohio. Filed Oct. 19, 1921. Serial No. 508,880. Term of patent 14 years.



The ornamental design for a tire, as shown.

61,165. SAFETY PAPER. CHARLES KRES, Cleveland, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 11, 1921. Serial No. 444,300. Term of patent 14 years.



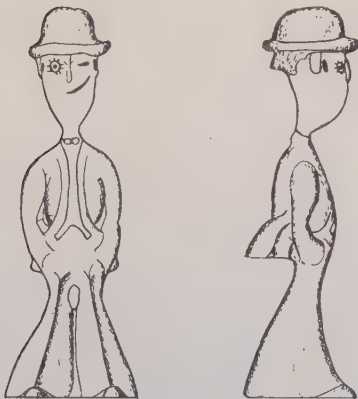
The ornamental design for safety paper surface, as shown.

61,166. SAFETY PAPER. CHARLES KRES, Cleveland, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,334. Term of patent $3\frac{1}{2}$ years.



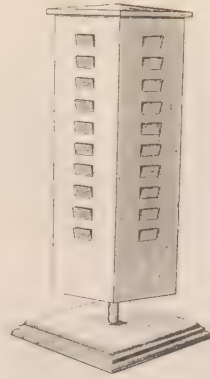
The ornamental design for safety paper surface, as shown.

61,167. DOLL OR STATUETTE. ALEXANDER W. KURFISS, Kansas City, Mo., assignor to John W. Mashburn, Kansas City, Mo. Filed Mar. 27, 1922. Serial No. 1,399. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a doll or statuette, as shown.

61,168. SWIVEL CONFECTION RACK. JOSEPH LAZERUS, Philadelphia, Pa. Filed July 2, 1921. Serial No. 482,221. Term of patent 7 years.



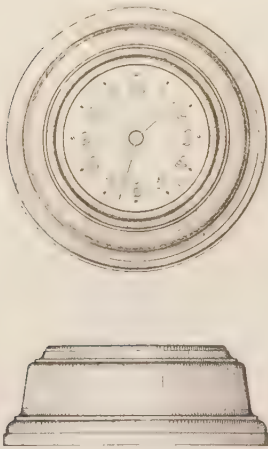
The ornamental design for a swivel confection rack, as shown.

61,169. VASE. ALLEN A. LYON, Belvidere, Ill. Filed July 9, 1921. Serial No. 483,572. Term of patent 7 years.



The ornamental design for a vase, as shown.

61,170. CLOCK CASE. LEWIS E. MACOMBER, New York, N. Y., assignor to Seth Thomas Clock Co., Thomaston, Conn., a Corporation. Filed Feb. 13, 1922. Serial No. 672. Term of patent 7 years.



The ornamental design for a clock case as shown.

61,171. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 974. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,172. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 976. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,173. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,318. Term of patent $3\frac{1}{2}$ years.



The ornamental design for safety paper, as shown.

61,174. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,319. Term of patent $3\frac{1}{2}$ years.



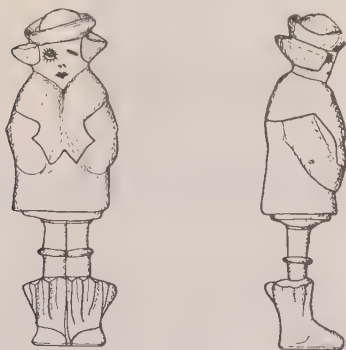
The ornamental design for safety paper, as shown.

61,175. CORSET. GERTRUDE L. NICKERSON, Bridgeport, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 5, 1922. Serial No. 1,557. Term of patent 14 years.



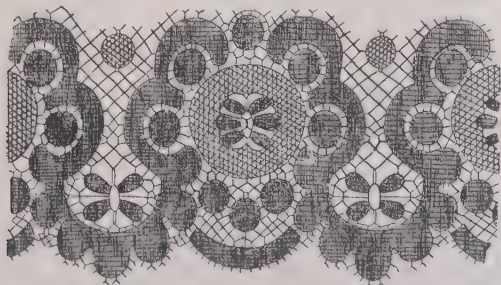
The ornamental design for a corset, as shown and described.

61,176. DOLL OR STATUETTE. GEORGE W. SISK, Kansas City, Mo., assignor to John W. Mashburn, Kansas City, Mo. Filed Mar. 27, 1922. Serial No. 1,411. Term of patent $3\frac{1}{2}$ years.



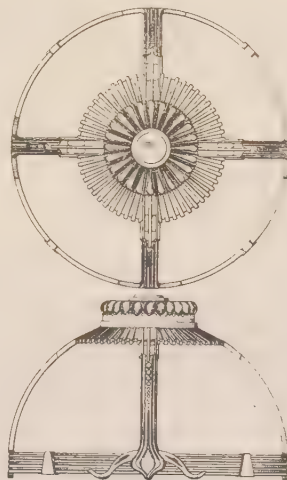
The ornamental design for a doll or statuette, as shown.

61,177. LACE. THOMAS H. SMEDLEY, Long Eaton, England, assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed Nov. 18, 1921. Serial No. 516,221. Term of patent $3\frac{1}{2}$ years.



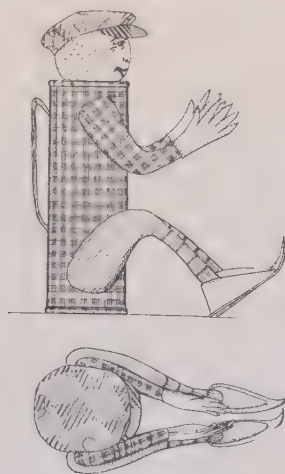
The ornamental design for lace, as shown.

61,178. ART METAL SHADE FRAME. ADOLF STEFFEN, Pittsburgh, Pa., assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 18, 1921. Serial No. 470,614. Term of patent 7 years.



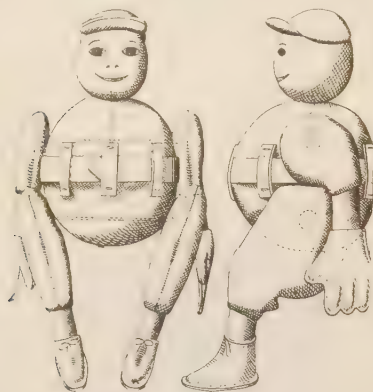
The ornamental design for an art metal shade frame, as shown.

61,179. DOLL. WILLIAM B. VAN VALIN, Los Angeles, Calif. Filed Feb. 10, 1922. Serial No. 635. Term of patent 14 years.



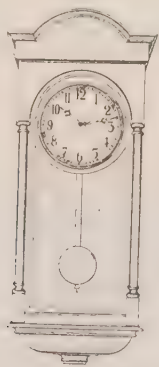
The ornamental design for a doll, as shown.

- 61,180. BASEBALL-PLAYER DOLL. WILLIAM B. VAN VALIN, Los Angeles, Calif. Filed Mar. 27, 1922. Serial No. 1,412. Term of patent 14 years.



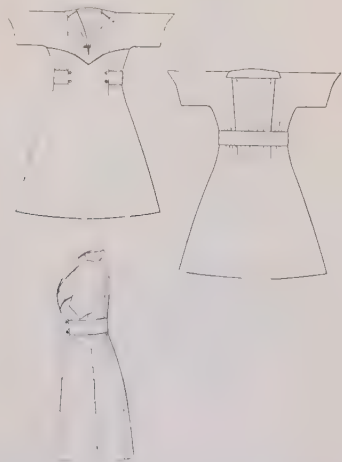
The ornamental design for a baseball player doll, as shown.

- 61,181. CLOCK CASE. FREDERICK A. WEIDMAN, Thomaston, Conn., assignor to Seth Thomas Clock Co., Thomaston, Conn., a Corporation. Filed Feb. 13, 1922. Serial No. 682. Term of patent 7 years.



The ornamental design for a clock case as shown.

- 61,182. DRESS APRON. MAY WHITE, Newport Beach, Calif. Filed Apr. 11, 1922. Serial No. 1,689. Term of patent 7 years.



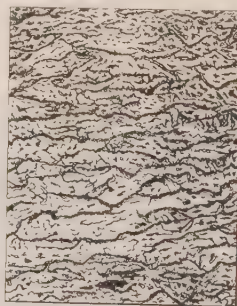
The ornamental design for a dress apron as shown.

- 61,183. PHONOGRAPH CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed Nov. 5, 1920. Serial No. 422,052. Term of patent 7 years.



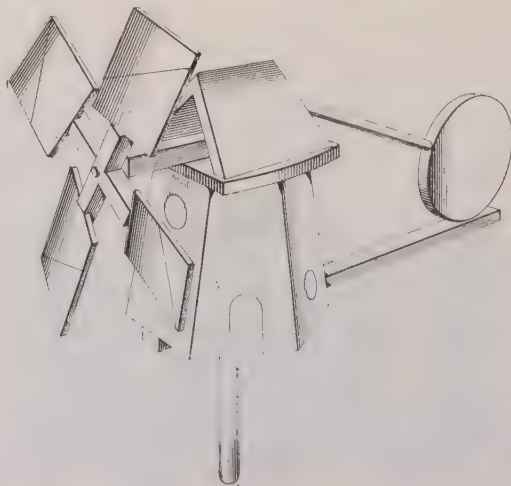
The ornamental design for a phonograph cabinet, substantially as shown.

- 61,184. LEATHER, WALL PAPER, OR SIMILAR ARTICLE OF MANUFACTURE. HENRY G. WURM, Yonkers, N. Y. Filed Jan. 6, 1922. Serial No. 66. Term of patent 7 years.



The ornamental design for leather, wall paper, or similar article of manufacture, as shown.

- 61,185. TOY WINDMILL. STELLA A. GILL, Chatham, Mass. Filed Nov. 30, 1921. Serial No. 519,005. Term of patent 7 years.



The ornamental design for a toy windmill, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 4, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 106,453. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE MINNESOTA STOVE COMPANY, Minneapolis, Minn. Filed Sept. 26, 1917.

SANICO

Particular description of goods.—Wood, Coal, Gas, Oil, and Vapor Stoves, Ranges, and Furnaces.

Claims use since on or about May 1, 1917.

Ser. No. 111,634. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Electric Apparatus and Material. Namely, Electric Signal or Alarm Boxes, Electric Door Openers, Electric Sewing Machines, Switchboards, Distributing Rings and Frames, Apparatus Blanks for Switchboards, Designation Strips for Switchboards, Apparatus Spaces for Switchboards, Trouble Caps for Switchboards, Plug Cut-Outs, Electric Pumps, Wall Plates for Switches and Electrical Appliances, Battery Lamps and Lanterns, Insulating Fabric for Wire and Cables, Burglar Alarms, Insulating Compounds for Wires and Cables, Panel Boards, Conduits and Fittings, Electrical Cords, Cord Tips, Attachment Plugs, Telephone Plugs and Plug Sets, Sockets, Electrical Receptacles to Receive Attachment Plugs, Fuse Blocks and Posts, Gongs and Gong Mountings, Electric Battery Connectors and Cabinets for Electric Batteries, Telephone and Telegraph Apparatus, Insulators, Fanning Strips, Ground Strips, Telephone Hand Sets and Hand-Set Hangers, Hand Wheels, Mounting Plates for Electric Apparatus, Binding Posts, Connection Blocks, Cable Terminals, Cable Boxes, Terminal Punchings and Strips, Metal Trolley Poles, Charging Machines, Ringing Machines, Hickeys, Duct Rods, Electric Power Switches, Splicing Compound, Bell-Ringing Transformers, Electric Hammers, Insulating Compound, Electric Power and Light Outfits, Electric Vacuum Tubes, Wireless Systems, Electric Utility Motors, Telephone Sets for Automobiles, Telephone Sets for Churches, Circuit Breakers, Insulating Joints, Outlet Boxes, Christmas-Tree Lighting Outfits, Electric Smoothing Irons, Holders for Shades for Electric Lamps, Electric Drops, Electric Ranges, Electric Dishwashers, Printing-

Telegraph Apparatus, Electric Train-Dispatching Systems, Condensers, Desk-Set Boxes, Flashing Recall Outfits, Desk Stands, Desk Sets, Subscribers' Sets, Backboards for Subscriber Sets, Telephone Coin Collectors, Heat Coils, Howlers, Induction Coils, Repeating Coils, Retardation Coils, Resistances, Interrupters, Jacks, Jack Boxes, Jack Fasteners, Jack Markers, Switchboard Keys, Key Caps, Key Indicators, Key Levers, Key Units, Lightning Arresters, Protectors, Listening Sticks, Protector Blocks, Protector Micars, Line Connectors, Line Poles, Telephone Receivers, Telephone Transmitters, Telephone Transmitter Arms and Brackets, Telephone Transmitter Attachments, Relays, Telephone and Telegraph Relays, Telephone-Relay Covers, Resonators for Telegraph Sounders, Ringers, Signals, Telegraph Sounders, Switch Tools for Telephone Subscriber Sets, Tape for Breast Transmitters, Telegraph Keys, Telegraph Sets, Autotransformers, Artificial Lines, Attenuation Equalizers, Audions, Binaural Sets, Fuse Boards, Power Boards, Alarm Cabinets, Supervisors' Cabinets, Number-Plate Cabinets, Carrier Telephone Apparatus and Systems, Carrier Telegraph Apparatus and Systems, Carrier Current Repeaters, Carrier Panels, Loading Coils, Loading Cases and Pots, Pot-Head Compound, Deaf Sets, Electron-Discharge Devices, Electron-Discharge-Device Sockets, Electric Wave Filters, Mechanical Repeaters, Mechanical-Repeater Sockets, Milking Machines, Cream Separators, Electrical Networks, Rectifiers, Telephone Repeaters, Telegraph Repeaters, Train-Dispatching Selectors, Impulse Senders, Signaling Sets, Submarine Signaling Systems, Submarine Signaling Detectors, Submarine Signaling Compensators, Manual Telephone Systems, Automatic Telephone Systems, Semi-automatic Telephone Systems, Automatic Telephone Apparatus, Semiautomatic Telephone Apparatus, Loud-Speaking Telephone Systems and Apparatus, Thermocouples, Vacuum-Tube Input and Output Transformers, Vacuum-Tube Oscillation Generators, Vacuum-Tube Oscillators, Vacuum Pumps, Electrical Water Systems, Insulating Paints and Varnishes, Automobile Heaters, Automobile Timers, Curling-Iron Heaters.

Claims use since January, 1910.

Ser. No. 111,635. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Cord Fasteners, Cord Hooks, Cord Pulleys, Cord Weights for Switchboards, Key Shelf Braces, Window Springs, Number Plates,

Expansion Shields and Toggle Bolts; Anchoring Appliances for Telephone and Telegraph Lines—Namely, Screw Anchors, Guy Anchors, Insulated Staples and Nails, and Milonite Nails.

Claims use since January, 1910.

Ser. No. 123,631. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DODGE SALES & ENGINEERING CO., Mishawaka, Ind. Filed Oct. 10, 1919.

KEYSTONE

Trade-mark consists of the word "Keystone" in letters whose tops are inclined slightly to right, initial letter "K" being larger and the upper diagonal stroke extending in a curve which connects with a horizontal line placed above letters "stone."

Particular description of goods.—Stamped Steel Pulleys of Various Diameters and Widths for Power-Transmission Purposes as Complete Units, in the Construction of Machines, on Line and Other Shafting, Etc.

Claims use since 1906.

Ser. No. 129,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILSON & CO. INC., New York, N. Y., and Chicago, Ill. Filed Mar. 16, 1920.

WILSCO

Trade-mark "Wilso."

Particular description of goods.—Tomato Catchup, Fruit in Sugar, Cherries, Oysters, Salmon, Tomatoes, Succotash, Sauerkraut, Peas, Okra and Tomatoes, Cut Okra, Corn, Beets, Wax Beans, Strawberries, Raspberries, Blackberries, Pineapple, Plums, Pears, Peaches, Grapes, Royal Anne Cherries, Apricots, Hominy, Pumpkin, Sweet Potatoes, Spinach, Rhubarb, Apples, Asparagus.

Claims use since July 26, 1916.

Ser. No. 131,719. (CLASS 38. PRINTS AND PUBLICATIONS.) THE GEORGE MATTHEW ADAMS SERVICE, New York, N. Y. Filed Apr. 26, 1920.

Minute Movies

Particular description of goods.—Series of Cartoons.
Claims use since Dec. 1, 1919.

Ser. No. 138,800. (CLASS 8. RECEPTACLES.) ALUMINIUM WALZWERKE A.-G., Schaffhausen, Switzerland. Filed Oct. 26, 1920.



Particular description of goods.—Boxes and Vases Made of Aluminium.

Claims use since Dec. 1, 1912.

Ser. No. 139,790. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) EVANS CONCINNUM & METAL WORKS, LTD., London, England. Filed Nov. 18, 1920.

CONCINNUM

Particular description of goods.—Pocket Cigarette-Rolling Machines.

Claims use since 1885.

Ser. No. 140,311. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

RAINBOW

Particular description of goods.—Muslin, Cambric, Nainsook, and Long Cloth, All in the Piece.

Claims use since 1906.

Ser. No. 143,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PORTER CHEMICAL COMPANY, Hagerstown, Md. Filed Feb. 2, 1921.

CHEMCRAFT

Particular description of goods.—Chemicals as Listed in Accompanying Catalogue.

Claims use since on or about Nov. 1, 1915.

Ser. No. 143,544. (CLASS 37. PAPER AND STATIONERY.) THE C. L. LABOITEAUX COMPANY, Cincinnati, Ohio. Filed Feb. 14, 1921.

PARAGON

Particular description of goods.—Strawboard, Box Board, Binders' Board, Fiber Board, Backing Board, Plain Chip Board, Pasted Container Board, Pasted Strawboard, and Particularly Pasted Chip Board.

Claims use since first part of November, 1906.

Ser. No. 143,743. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CAMDEN ANCHOR-ROCKLAND MACHINE CO., Camden, Me. Filed Feb. 18, 1921.



Particular description of goods.—Marine and Stationary Internal-Combustion Motors and Carburetors.

Claims use since 1901.

Ser. No. 144,358. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton and London, Ontario, and Montreal, Quebec, Canada. Filed Mar. 9, 1921.

T & B

Particular description of goods.—Cut and Plug Tobacco.

Claims use since Apr. 8, 1872.

Ser. No. 144,546. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SKELTON TOOL CO., Syracuse, N. Y. Filed Mar. 9, 1921.

STC

Trade-mark "STCO."

Particular description of goods.—Tools Consisting of Reamers, Boring Bars, Special Metal Working Tools, and Machine Guards.

Claims use since on or about Feb. 1, 1919.

Ser. No. 144,884. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SANDER, WIELER & Co., Hamburg, Germany. Filed Mar. 17, 1921.



The Chinese characters appearing upon label of applicant mean: Foreign Firm Lee Kong. No claim is made to said Chinese characters apart from the mark.

Particular description of goods.—Carbon Blacks and Paint Pigments.

Claims use since 1860.

Ser. No. 145,119. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Mar. 23, 1921. Under ten-year proviso.

NOONAN'S

Particular description of goods.—Toilet Preparations—Namely, Complexion Cream, Skin Lotions, and Preparations for the Hair and Scalp.

Claims use since on or about Jan. 1, 1880.

Ser. No. 145,601. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ACKSWELL MFG. & SALES CO. INC., Northport, N. Y. Filed Apr. 2, 1921.

ACKSWELL

Particular description of goods.—Oil Valves.

Claims use since Sept. 29, 1920.

Ser. No. 145,708. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Apr. 4, 1921.

JIM DANDY

Particular description of goods.—Hosiery.

Claims use since 1907.

Ser. No. 145,861. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SULLIVAN MACHINERY COMPANY, Boston, Mass., and Chicago, Ill. Filed Apr. 7, 1921.

CYCLONE

Particular description of goods.—Air Lifts and Liquid Separators.

Claims use since May 7, 1920.

Ser. No. 146,321. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALLAN ANGUS MAGEE, Montreal, Quebec, Canada. Filed Apr. 18, 1921.



Particular description of goods.—Horses on Two, Three, or Four Wheels for Children.

Claims use since Jan. 15, 1921.

Ser. No. 146,549. (CLASS 7. CORDAGE.) THE HOOVEN & ALLISON COMPANY, Xenia, Ohio. Filed Apr. 22, 1921.



Particular description of goods.—Ropes and Cordage—Namely, Sisal and Manila Ropes.

Claims use since Aug. 15, 1920.

Ser. No. 146,655. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.



Particular description of goods.—Ammonia, Castor Oil, HIVE-Sirup Expectorant, Sirup of Figs and Senna, Tablets for the Relief of Aches and Pains, Cough Balsam, Sulphate Quinine Capsules, Worm Powders, Salts, Candy Worm Lozenges, Compound for Preserving Foods, Worm Sirup, Carbolic Salve, Coconut-Oil Shampoo, Rouge, Red Oil Liniment, Witch-Hazel Cream, Seidlitz Powders, Cream Tartar, Facial Cream, Saltpeter, Copperas, Haarlem-Oil Capsules, Nail Polish, Toilet Waters, Facial Powders, Violet Toilet Water, Cucumber and Witch-Hazel Cream, Camphorated Paraffine Oil, Paregoric, Tincture Arnica, Spirits Niter, Assafetida, Earache Drops, Witch Hazel, Liquid Bluing, Glycerine, Corn Plasters, Eyewater, Calomel, Sirup of Ipecac, Hoffman's Drops, Sirup of Pepsin, Egg Preserver, Candy Laxative, Powders for the Relief of Pain, Charcoal and Pepsin Lozenges, Sulphur and Cream of Tartar Lozenges, Bronchial Lozenges, Blue Vitriol, Colic and Diarrhea Mixture, Almond Cream Lotion, Cold Cream, Salicylic Acid, Mutton Tallow and Glycerine Cream, Moth Balls, Dental Cream, Peroxide Cream, Hand Lotions, Cucumber Cream, Witch Hazel Cream, Senna Leaves, Lip-Stick Rouge, Kidney Pills, Carbolic Acid, Lilac Toilet Water, Hair Tonic, White Liniment, Petroleum Jelly, Aspirin Tablets, Glycerine Rose-Water and Bay-Rum Preparation, Tincture Iron, Toothache Gum, Toothache Drops, Bay Rum, Epsom Salts, Alum, Spirits of Camphor, Glauber Salts.

Claims use since December, 1913.

Ser. No. 147,192. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed May 4, 1921.

TUCKAWAY

Particular description of goods.—Safety Razors.

Claims use since Apr. 26, 1921.

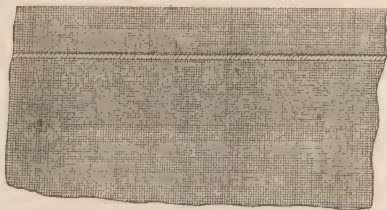
Ser. No. 147,229. (CLASS 12. CONSTRUCTION MATERIALS.) ROBERT BURHANS, Jr., Los Angeles, Calif. Filed May 5, 1921.

FEATHERSTONE

Particular description of goods.—An Insulating Powder Used in Building Construction and as an Ingredient in Making Mortar and Also for Making Into Building Bricks.

Claims use since August, 1920.

Ser. No. 147,266. (CLASS 39. CLOTHING.) THE VAN RAALTE COMPANY, New York, N. Y. Filed May 5, 1921.



No claim is made to the exclusive use of the representation of the goods apart from the mark as shown and described.

Particular description of goods.—Stockings.

Claims use since September, 1920.

Ser. No. 147,380. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) UNITED STATES BREWING COMPANY, Newark, N. J. Filed May 7, 1921.

TREFZ

"TASTE TELLS"

SPECIAL

The word "Special" being disclaimed apart from the mark as shown.

Particular description of goods.—Beer and Near Beer.

Claims use since 1909.

Ser. No. 147,727. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LINDSBORG MILLING & ELEVATOR Co., Lindsborg, Kans. Filed May 14, 1921.

GOLDEN EAGLE

Particular description of goods.—Wheat Flour.

Claims use since Apr. 12, 1905.

Ser. No. 148,041. (CLASS 5. ADHESIVES.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed May 21, 1921.

UNION

Trade mark consists of word "Union."

Particular description of goods.—Cement Such as is Used in the Manufacture and Repairing of Boots and Shoes.

Claims use since 1915.

Ser. No. 148,623. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. STEIN & COMPANY, Chicago, Ill. Filed June 3, 1921.

HICKORY

Particular description of goods.—Elastic Webbing and Shirred Elastic Ribbon.

Claims use since January, 1913.

Ser. No. 149,093. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NATIONAL HOME APPLIANCE CORPORATION, Detroit, Mich. Filed June 13, 1921.

WaterBaby

Particular description of goods.—Household Appliances Consisting of Hydraulic Motors and Hydraulically-Actuated Cleaners, Grinders, Beaters, Buffers, and Parts Thereof.

Claims use since Jan. 31, 1921.

Ser. No. 149,102. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HIRAM B. RHYMER, Elmira, N. Y. Filed June 13, 1921.

RHY-Ox-IDE

Particular description of goods.—Washing Powder.

Claims use since May 1, 1914.

Ser. No. 149,168. (CLASS 32. FURNITURE AND UPHOLSTERY.) MELVILLE C. BACHELLER, Grand Forks, N. Dak. Filed June 15, 1921.

Kiddie Cricket

No claim made to word "Cricket" apart from mark shown.

Particular description of goods.—Benches Other Than Workbenches.

Claims use since May 10, 1921.

Ser. No. 149,408. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALBERT E. LEON, Belmont, Mass. Filed June 20, 1921.

CELLUGRAPH

Particular description of goods.—Antifriction Bearings, Shafts, Arbors, and Bearing Parts.

Claims use since January, 1919.

Ser. No. 149,598. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed June 24, 1921.

CAPTAIN KIDD'S TREASURE CHEST

Particular description of goods.—Candy.
Claims use since Jan. 21, 1916.

Ser. No. 150,957. (CLASS 39. CLOTHING.) BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921.

FUSIYAMA

Particular description of goods.—Hats for Men.
Claims use since about December, 1919.

Ser. No. 152,217. (CLASS 15. OILS AND GREASES.) THE STAR OIL COMPANY, Chicago, Ill. Filed Aug. 26, 1921.

JUPITER

Particular description of goods.—Lubricating Oils.
Claims use since 1897.

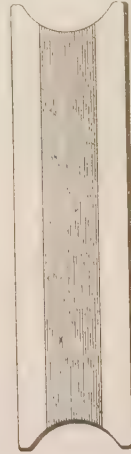
Ser. No. 152,459. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass. Filed Sept. 1, 1921.



No claim is made to the representation of the pulley or block. Trade-mark consists of a band or stripe colored yellow applied or produced in center of the periphery or score of sheave of a pulley or block covering approximately one-half of the width of such periphery or score and going all way round the same.

Particular description of goods.—Pulleys or Blocks.
Claims use since Jan. 1, 1901.

Ser. No. 152,460. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOSTON & LOCKPORT BLOCK COMPANY, Boston, Mass. Filed Sept. 1, 1921.



No claim to representation of pulley or block. Trade-mark consists of a band or stripe colored red applied or produced in the center of the periphery or score of sheave of a pulley or block covering approximately one-half of the width of such periphery or score and going all way round the same.

Particular description of goods.—Pulleys or Blocks.
Claims use since Jan. 1, 1901.

Ser. No. 152,727. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HARRY SILBERT, doing business as Hudson Bay Fur Company, New York, N. Y. Filed Sept. 8, 1921.



Particular description of goods.—Prepared Furs in the Piece or by the Yard.

Claims use since Aug. 17, 1921.

Ser. No. 152,849. (CLASS 38. PRINTS AND PUBLICATIONS.) ALBERT E. JACOBSON, New York, N. Y. Filed Sept. 12, 1921.

ARTATONE

Particular description of goods.—Photographic Prints.
Claims use since March, 1912.

Ser. No. 152,897. (CLASS 39. CLOTHING.) MARYLAND SHOE CORPORATION, Baltimore, Md. Filed Sept. 13, 1921.

BILTOFIT

Particular description of goods.—Leather and Canvas Shoes.

Claims use since Sept. 5, 1921.

Ser. No. 152,898. (CLASS 39. CLOTHING.) MARYLAND SHOE CORPORATION, Baltimore, Md. Filed Sept. 13, 1921.

TENDERTOUCHE

Particular description of goods.—Leather and Canvas Shoes.

Claims use since Sept. 5, 1921.

Ser. No. 153,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GADOMSKI BROS., Jersey City, N. J. Filed Sept. 23, 1921.



No claim is made to the representation of the container or to the words "Healing Powder" apart from mark shown on drawing.

Particular description of goods.—Healing Compound Adapted for Healing Sores and Wounds.

Claims use since May, 1920.

300 O. G.—11

Ser. No. 153,356. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KNICKERBOCKER CASE COMPANY, Chicago, Ill. Filed Sept. 26, 1921.



No claim is made to the word "Chicago" apart from mark shown on drawing.

Particular description of goods.—Cases and Bags Made of Leather, Fiber, or Other Suitable Materials, and Which Are to be Used for Holding Fishing Material.

Claims use since Mar. 16, 1921.

Ser. No. 153,420. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK VALCOUR, Cutbank and Forsyth, Mont. Filed Sept. 27, 1921.

ANNIHILATOR

Particular description of goods.—Liquid Cleaning Compound.

Claims use since Sept. 1, 1921.

Ser. No. 153,594. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT FABIG, Gesellschaft mit beschränkter Haftung, Maschinen u. Apparate-Fabrik, Neuruppin, Germany. Filed Oct. 1, 1921.

„Rofa“

Particular description of goods.—Typewriting Machines and Parts Thereof.

Claims use since Aug. 5, 1919.

Ser. No. 153,649. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Detroit Brass & Malleable Works, Detroit, Mich. Filed Oct. 3, 1921.



Particular description of goods.—Brass Valves and Cocks, Gas Appliances—Namely, Brackets, Bracket Cocks, Chandelier Cocks, Fixture Fittings, Hose Cocks, Hose Nipples, Gas-Log Mixers, Gas Mixer Pins, Service Cocks, and Extension Sockets, and Malleable-Iron Pipe Fittings.
Claims use since 1904.

Ser. No. 153,733. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MANHATTAN BRIAR PIPE COMPANY, New York and Brooklyn, N. Y. Filed Oct. 4, 1921.



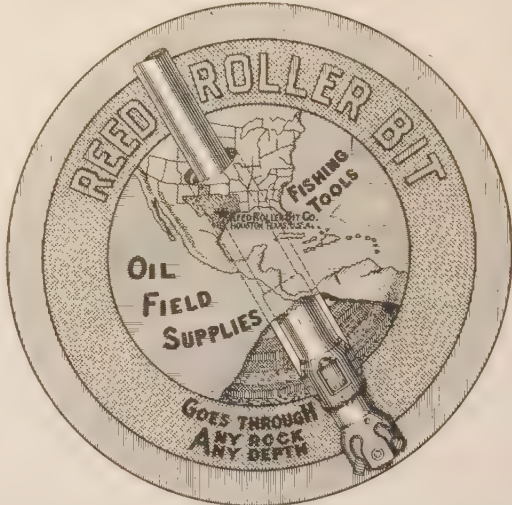
No claim is made to pictorial representation of pipe apart from mark on drawing. The mark consists of two relatively small adjacent dots of gold color applied or affixed to stem of pipe.
Particular description of goods.—Pipes for Smoking.
Claims use since Sept. 20, 1921.

Ser. No. 153,743. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) MANHATTAN BRIAR PIPE COMPANY, New York and Brooklyn, N. Y. Filed Oct. 4, 1921.



No claim is made to the pictorial representation of the pipe apart from mark shown. The mark consists of a relatively short and narrow stripe of silver color applied or affixed to the stem of the pipe.
Particular description of goods.—Pipes for Smoking.
Claims use since Sept. 20, 1921.

Ser. No. 153,950. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) REED ROLLER BIT Co., Houston, Tex. Filed Oct. 10, 1921.



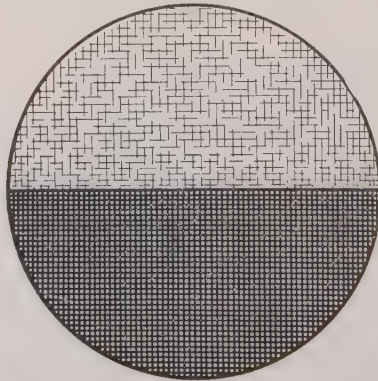
The representation of the roller bit and the printed words except "Reed Roller Bit Co." are disclaimed apart from mark shown. The lining in drawing expresses red, yellow, and blue color.
Particular description of goods.—Rotary Drill Bits, Reamers, Oil-Well Fishing Tools, and Repair Paste for Oil and Water Wells.
Claims use since May, 1920.

Ser. No. 153,980. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. A. HENCKELS, New York, N. Y., assignor to Gref & Schmidt, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 11, 1921.



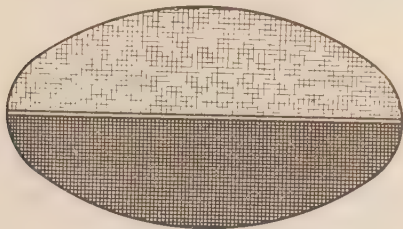
Particular description of goods.—Cutlery—Namely, Pocketknives, Penknives, Shears, and Scissors.
Claims use since Oct. 1, 1888.

Ser. No. 154,036. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS & COMPANY, Chicago, Ill. Filed Oct. 12, 1921.



Trade-mark consists of a circular panel of which upper half is yellow and lower half black, said panel being surrounded by an annular border.
Particular description of goods.—Meats, Meat Products, and Other Foods—Namely, Cheese, Bacon, Ham, Skinned Ham, Boiled Ham, Sausages, and Extract of Beef.
Claims use since Dec. 1, 1919.

Ser. No. 154,037. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS & COMPANY, Chicago, Ill. Filed Oct. 12, 1921.



Trade-mark consists of an oval panel of which the upper half is yellow and lower half black, said panel being surrounded by a narrow border of oval contour.

Particular description of goods.—Meats, Meat Products, and Other Foods—Namely, Sausage, Sliced Bacon, Pure Lard, Leaf Lard, Sliced Dried Beef, Lamb Tongues, and Bouillon Cubes.

Claims use since Dec. 1, 1919.

Ser. No. 154,100. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SUSSFELD, LORSCH & SCHIMMEL, New York, N. Y. Filed Oct. 14, 1921.



No right to the use of trade-mark for watches is claimed.

Particular description of goods.—Watch Parts.

Claims use since Apr. 18, 1921.

Ser. No. 154,226. (CLASS 39. CLOTHING.) R. LIPSCHITZ & SONS, New York, N. Y. Filed Oct. 17, 1921.



The word "Mills" does not form a part of the registration apart from mark shown on drawing.

Particular description of goods.—Hosiery, Underwear, and Sweaters of Knitted Fabric for Men, Women, and Children.

Claims use since Oct. 27, 1920.

Ser. No. 154,311. (CLASS 39. CLOTHING.) THOMAS E. GREANEY, doing business as Standard Neckwear Company, Boston, Mass. Filed Oct. 19, 1921.



"Wear Plus" (Trade-Mark).

Particular description of goods.—Neckties.

Claims use since June 1, 1921.

Ser. No. 154,634. (CLASS 32. FURNITURE AND UPHOLSTERY.) BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Oct. 27, 1921. Under ten-year proviso.



Particular description of goods.—Mattresses, Cushions, Pads, Springs, Box Springs, Pillows, and Beds.

Claims use since 1894.

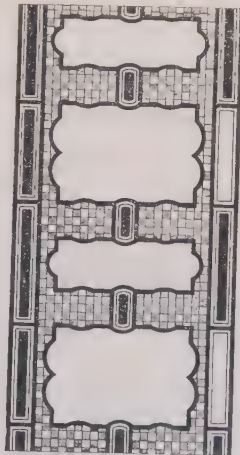
Ser. No. 154,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VELVOTONE CHEMICAL Co., Jacksonville, Fla. Filed Nov. 2, 1921.



Particular description of goods.—Preparation to Promote the Growth of Hair on the Scalp and Temples and for the Treatment of Dandruff, Tetter, and Eczema.

Claims use since February, 1921.

Ser. No. 154,996. (CLASS 12. CONSTRUCTION MATERIALS.) RUTLAND FIRE CLAY Co., Rutland, Vt. Filed Nov. 3, 1921.



The lining on drawing denotes shading.

Particular description of goods.—Boiler Covering.

Claims use since some time in 1908.

Ser. No. 155,210. (CLASS 39. CLOTHING.) LANE BROTHERS COMPANY, Boston, Mass. Filed Nov. 2, 1921.



Applicant hereby disclaims the word "Comfort" shown on drawing.

Particular description of goods.—Leather Shoes, Felt Shoes, and Shoes of a Combination of Leather and Rubber.
Claims use since July 14, 1909.

Ser. No. 155,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y., and Kansas City, Mo. Filed Nov. 12, 1921.

GOLDEN LIGHT

Particular description of goods.—Wheat Flour.
Claims use since Aug. 1, 1906.

Ser. No. 155,412. (CLASS 39. CLOTHING.) L. H. LEWIS COMPANY, Dallas, Tex. Filed Nov. 15, 1921.

Sonny Boy

Particular description of goods.—Hosiery.
Claims use since about Nov. 1, 1921.

Ser. No. 155,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AACHENER THERMALWASSER "KAISERBRUNNEN," AKTIENGESELLSCHAFT, Aachen Aix-la-Chapelle, Germany. Filed Nov. 17, 1921.



No claim is made to the exclusive use of any of the words except "Aix" apart from mark shown in drawing.

Particular description of goods.—Drinking Salt, Bath Salt, Pastils Containing Spring Salts for Internal Use, and Medicated Cream for External Use for the Treatment of Ailments of the Skin.

Claims use since June 5, 1909.

Ser. No. 155,506. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Nov. 17, 1921.

SHORT JAMA

Particular description of goods.—Pyjamas.
Claims use since Nov. 1, 1920.

Ser. No. 155,508. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Nov. 17, 1921.

LONG JAMA

Particular description of goods.—Pyjamas.
Claims use since Nov. 1, 1920.

Ser. No. 155,572. (CLASS 39. CLOTHING.) JAMES A. PANARELLO, doing business as J. A. Panarello Co., New York, N. Y. Filed Nov. 18, 1921.

FAIRWAY

Trade-mark "Fairway."
Particular description of goods.—Golf Hose.
Claims use since Sept. 30, 1921.

Ser. No. 155,596. (CLASS 39. CLOTHING.) MARCUS BREIER'S SONS, New York, N. Y. Filed Nov. 19, 1921.



The lining on drawing denoted the color red.

Particular description of goods.—Clothing Consisting of Men's and Youths' Outer Shirts, Men's Nightshirts, and Pyjamas.

Claims use since Oct. 1, 1921.

Ser. No. 155,631. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) IRVING R. PIERSON, New York, N. Y. Filed Nov. 19, 1921.

DETEKTOR

Particular description of goods.—Metallic Straps for Use in Strapping and Sealing Boxes and Other Containers.

Claims use since Oct. 21, 1921.

Ser. No. 156,231. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLER TOOL & MFG. Co., Detroit, Mich. Filed Dec. 3, 1921.



No claim is made to the exclusive use of the words "Auto Service Tools" except in the connection and design shown.

Particular description of goods.—Service Tools Used in Repairing Automobiles Comprising Disk-Clutch Spring Compressors, Pinion Pullers, Cylinder-Lapping Tools, Cam-Shaft Thrust-Block Pullers, Fixtures for Removing Cone-Clutch Shaft-Front Bearings, Crank-Shaft and Connecting-Rod Bearing Shim Filing Blocks, Universal-Joint Front-Yoke Pullers, Rear-Axle Stands, Front-Axle Stands, Spring Shackle-Bolt Grease Guns, Engine Repair and Test Stands, Inner and Outer Brake-Adjusting Fixtures, Engine-Lifting Attachments, Gasoline and Oil Line Flanging Tools, Feelers, Socket-Wrench Kits, Plain Braces, Dies and Stocks, Valve Grinders, Valve-Spring Holders, Grabhooks for Unloading Cars, Tork-Tube Tools for Pulling Bearing Cups Out of Tork Tubes, Arbors for Aligning Pistons with Connecting Rods, Tools for Compressing Springs on Wind-Shield Pivots While Starting Nut, Chain Hoists, Valve-Refacing Tools, Bearing Scrapers, Fixtures for Supporting Front End of Motors, Universal-Ratchet Socket Wrench Sets, Long-Nose Side Cutting Pliers, Large Starting Cranks, Piston Vises, Front Car-Lifting Bars, Motor-Lifting Chain and Ring Nuts, Motor-Lifting Ring Nuts, Brooches, Connecting-Rod and Piston Aligning Fixtures, Dollies for Use When Unloading Automobiles from Freight Cars, Cylinder-Reboring Tools, Gear Pullers, Rawhide Hammers, Wrenches,

Wheel Pullers, Valve-Seating Tools, Counterboring Tools, Tinners' Snips, Hack Saws, Valve-Seat Lapping Braces, Valve-Spring Compressors, Valve-Guide Installing Fixtures, Drifts, Drills, Reamers, Taper Keys, Cold Chisels, Plug Taps, Spark-Plug Hole Taps, Piston-Ring Expanders, Bushing Extractors.

Claims use since in or about March, 1921.

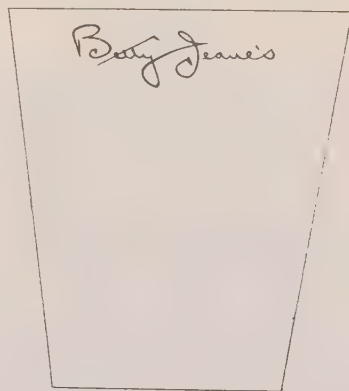
Ser. No. 156,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZABETH FIMMEL, North Branch, N. J. Filed Dec. 5, 1921.



Particular description of goods.—Salve or Ointment for Open Wounds or Skin Disturbances.

Claims use since Nov. 1, 1921.

Ser. No. 156,352. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BETTY JEANE, INCORPORATED, Los Altos, Calif. Filed Dec. 7, 1921.



Particular description of goods.—Canned Fruits, Canned Vegetables, Olives, Nuts in Their Natural State, Honey, Jelly, Fruit Preserves, Marmalade, and Whole Spiced Figs.

Claims use since June 1, 1920.

Ser. No. 156,410. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PASSAIC PRINT WORKS, Passaic, N. J. Filed Dec. 7, 1921.



Particular description of goods.—Cotton Piece Goods.

Claims use since November, 1919.

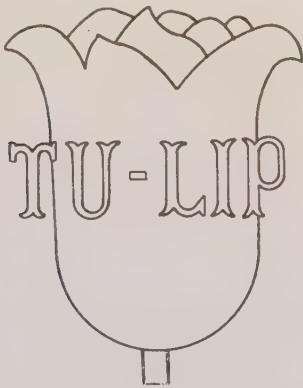
Ser. No. 156,471. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) TERNSTEDT MANUFACTURING Co., Detroit, Mich. Filed Dec. 8, 1921.



Particular description of goods.—Automobile-Body Hardware—Namely, Window Regulators and Parts Thereof, Curtain Rollers and Parts Thereof, Door Bumpers and Door Dovetails, Antirattlers for Doors and Windows, Doorchecks, Strap Hinges, Rear-Deck Hinges, Concealed Hinges, Piano Hinges, Rear-Deck Lid Braces, Screw-Machine Products Comprising Studs, Screws, Nuts, Window-Regulator Parts, and Crank-Shafts.

Claims use since June 1, 1921.

Ser. No. 156,500. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MILLER LOCK COMPANY, Philadelphia, Pa. Filed Dec. 9, 1921.



Particular description of goods.—Frying Pans and Broom Holders.

Claims use since May 15, 1921.

Ser. No. 156,727. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN WANAMAKER, PHILADELPHIA, Philadelphia, Pa. Filed Dec. 14, 1921.

BOUQUET D'ORIENT

Particular description of goods.—Soaps.

Claims use since Mar. 4, 1921.

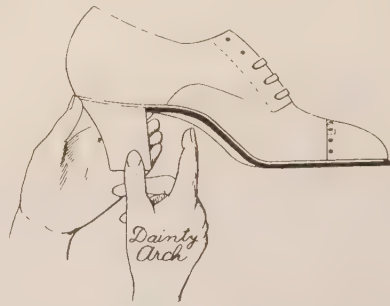
Ser. No. 156,778. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE COLLINS COMPANY, Collinsville, Conn. Filed Dec. 16, 1921.

RAYO

Particular description of goods.—Agricultural Implements, Cutlery and Edge Tools and Machinists' Tools, viz.:—Axes, Hatchets, Adzes, Bush Hooks, Saws, Pick-axes, Machetes, Tercados, Chisels, Bowie Knives, Kitchen Knives, Swords, Augers, Boring Bits, Lanzas, Lancitas, Jincolas, Arpones, Sickles, Millpicks, Wedges, Shovels, Spades, Stone and Rock Drills, Crowbars, Mattocks, Hoes, Picks, Barras, Cavadores, Barretones, Palas, Tarpalas, Sledges, Hammers, Plows.

Claims use since February, 1920.

Ser. No. 156,800. (CLASS 39. CLOTHING.) THE PLAUT-BUTLER COMPANY, Cincinnati, Ohio. Filed Dec. 16, 1921.



No claim is made to the exclusive use of the picture or representation of a shoe or the words "Dainty Arch" apart from the mark in its entirety as shown.

Particular description of goods.—Boots, Shoes, and Slippers Made Either Wholly of Leather or of Fabric, Such as Canvas, Satin, or Cloth, or Combination of Leather and Fabric.

Claims use since about Oct. 1, 1921.

Ser. No. 156,866. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SYKES & THOMPSON CO., Cleveland, Ohio. Filed Dec. 17, 1921.

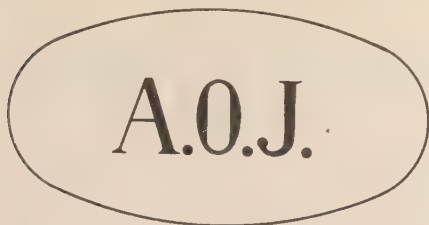


No claim being made to the words "Containers Pat. May 27, 1919, Name & Trade Mark Registered, Contents 7 Pieces Cleveland Candy."

Particular description of goods.—Confections—Namely Candy.

Claims use since Nov. 10, 1921.

Ser. No. 156,945. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) A. O. J. TOOL COMPANY, Coldwater, Mich. Filed Dec. 20, 1921.



Particular description of goods.—Shock Pneumatic Tools and Hand Tools Made of Steel Comprising Rivet Sets, Pistons for Pneumatic Hammers, Bushings, Punches, and Chisels.

Claims use since June 1, 1921.

Ser. No. 157,043. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RAINBOW IMPORT & EXPORT CORPORATION, New York, N. Y. Filed Dec. 22, 1921.



Particular description of goods.—Aluminum Kitchen Utensils and Flatware—Namely, Sauce Pots of All Descriptions, Teakettles, Colanders, Teapots, Fry Pans, Graters, Cake Turners, Skimmers, Ladles, Strainers, Trays, Soap Dishes, Pudding Pans, Funnels, Coffee pots, Percolators, Pie Plates, Tumblers, Roasters, Molds, Cups, Griddles, Basins, Pitchers, Dippers, and Muffin Pans.

Claims use since January, 1921.

Ser. No. 157,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) 1 IN 5 MANUFACTURING Co., Detroit, Mich. Filed Dec. 27, 1921.



No claim is made to the words "Carbon Remover and Gasoline Saver, One Ounce to Gal. of Gasoline" apart from mark shown.

Particular description of goods.—Liquid Preparation for Energizing Gasoline.

Claims use since September, 1921.

Ser. No. 157,293. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Dec. 30, 1921.

MT. TOM MILLS

No claim to exclusive use of word "Mills" apart from mark shown in drawing.

Particular description of goods.—Writing and Printing Papers.

Claims use since Aug. 1, 1921.

Ser. No. 157,294. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Dec. 30, 1921.

MT. HOLYOKE MILLS

No claim to exclusive use of word "Mills" apart from mark shown in drawing.

Particular description of goods.—Writing and Printing Papers.

Claims use since Oct. 10, 1921.

Ser. No. 157,317. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INTERNATIONAL VENDING MACHINES LTD., Montreal, Quebec, Canada. Filed Dec. 30, 1921.



Particular description of goods.—Vending Machines.

Claims use since Sept. 30, 1921.

Ser. No. 157,333. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Dec. 30, 1921.

KASHA

Particular description of goods.—Woolen, Merino, and Cashmere Piece Goods.

Claims use since March, 1910.

Ser. No. 157,334. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Dec. 30, 1921.

BARAGLADINE

Particular description of goods.—Piece Goods of Wool and of Silk and of Combinations of Silk and Wool.

Claims use since Oct. 11, 1921.

Ser. No. 157,335. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Dec. 30, 1921.

BULLA

Particular description of goods.—Piece Goods of Cotton and of Wool and Combinations of Cotton and Wool.
Claims use since Oct. 11, 1921.

Ser. No. 157,587. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SOCIETE RODIER, Paris, France. Filed Jan. 6, 1922.

CRÉPELLA

Particular description of goods.—Woolen Piece Goods.
Claims use since Jan. 16, 1920.

Ser. No. 157,636. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SCHLANGEN BROS. Co., Chicago, Ill. Filed Jan. 7, 1922.

DAISY

Particular description of goods.—Hose Nozzles.
Claims use since December, 1919.

Ser. No. 157,720. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) McCLOVE-BROOKS Co., Scranton, Pa. Filed Jan. 10, 1922.



No claim is made to words "Grates, Stokers, Steam Blowers" except in the setting and relation in which they appear on drawing.

Particular description of goods.—Steam Blowers.
Claims use since Aug. 3, 1921.

Ser. No. 157,808. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE F. A. KLAINE COMPANY, Cincinnati, Ohio. Filed Jan. 12, 1922.

JUMBO

Particular description of goods.—Coal, Coke, Wood, and Gas Stoves.
Claims use since 1880.

Ser. No. 157,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CRESCENT COMPANY, Tarr, Pa. Filed Jan. 14, 1922.



Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since November, 1919.

Ser. No. 157,943. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, trading as Fred B. Neuhooff Company, Los Angeles, Calif. Filed Jan. 14, 1922.

BUENA VISTA

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 157,945. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, trading as Fred B. Neuhooff Company, Los Angeles, Calif. Filed Jan. 14, 1922.

REDONDO

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 157,946. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED B. NEUHOFF, trading as Fred B. Neuhooff Company, Los Angeles, Calif. Filed Jan. 14, 1922.

EL MORO

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since 1916.

Ser. No. 157,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTGATE SEA PRODUCTS CO., San Diego, Calif. Filed Jan. 14, 1922.

WESTGATE

Particular description of goods.—Canned White Tuna Fish.

Claims use since April, 1921.

Ser. No. 158,166. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIAM ZINSSER & COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 19, 1922.

GIBRALTAR

Particular description of goods.—Oil Paint.

Claims use since about 1912.

Ser. No. 158,190. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE LAMSON BROTHERS CO., Toledo, Ohio. Filed Jan. 20, 1922.

NON NETTLE

Particular description of goods.—Toilet Soaps.

Claims use since July 28, 1914.

Ser. No. 158,245. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Jan. 21, 1922.

La Gloire

Particular description of goods.—Combs, Pincushions, Glove Stretchers, Shoe horns not of Precious Metal, and Button Hooks not of Precious Metal, Celluloid, Rubber, Ivory, Shell, Amber, Horn, Bone, or the Imitations Thereof.

Claims use since Oct. 25, 1921.

Ser. No. 158,279. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed Jan. 21, 1922.

JUMBO

Particular description of goods.—Crushers and Like Machines.

Claims use since Dec. 24, 1904.

Ser. No. 158,292. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARLSBAD VEGETABLE GROWERS ASSOCIATION, Carlsbad, Calif. Filed Jan. 23, 1922.

WIZARD

Particular description of goods.—Fresh Vegetables.

Claims use since Jan. 15, 1921.

Ser. No. 158,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FILICE & PERRELLI CANNING CO., Gilroy, Calif. Filed Jan. 23, 1922.

DEMAND

Particular description of goods.—Canned Vegetables and Canned Fruits.

Claims use since July 15, 1921.

Ser. No. 158,313. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAMOES LIMITED, London, England. Filed Jan. 23, 1922.

HAMOEES

Particular description of goods.—Hair Wash, Shampoo Powders, and Perfumery Powders, Pastes, and Liquid Preparations for Cleansing the Teeth and Gums.

Claims use since June, 1920.

Ser. No. 158,322. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LANGLEY & MICHAELS CO., San Francisco, Calif. Filed Jan. 23, 1922.

Reliance

Particular description of goods.—Soda Fountains, Carbonators, and Soda-Fountain Machinery.

Claims use since Jan. 1, 1921.

Ser. No. 158,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Filed Jan. 23, 1922.

CALUMET

Particular description of goods.—Malt Sirup for Food Purposes.

Claims use since June 13, 1921.

Ser. No. 158,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Filed Jan. 23, 1922.

MARVEL

Particular description of goods.—Malt Sirup for Food Purposes.

Claims use since June 13, 1921.

Ser. No. 158,331. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Chicago, Ill. Filed Jan. 23, 1922.

CARAVAN

Particular description of goods.—Malt Sirup for Food Purposes.

Claims use since June 13, 1921.

Ser. No. 158,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RODDENBERRY BROS., Cairo, Ga. Filed Jan. 23, 1922.

Pure Gold

BRAND

No claim to the word "Brand" apart from mark shown on drawing.

Particular description of goods.—Pure Georgia Cane Syrup.

Claims use since Feb. 7, 1899.

Ser. No. 158,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE BROS. & CRUM CO., Lewiston, Idaho. Filed Jan. 23, 1922.



Particular description of goods.—Fresh Deciduous Fruits.

Claims use since Sept. 23, 1921.

Ser. No. 158,395. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KRUEGER-TOBIN CO., Inc., New York, N. Y. Filed Jan. 24, 1922.

KREEPER

Particular description of goods.—Infants' Hosiery.

Claims use since Jan. 13, 1922.

Ser. No. 158,407. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACE & CO., Brooklyn, N. Y. Filed Jan. 24, 1922.

GUMMIES

Particular description of goods.—Candies.

Claims use since Jan. 19, 1922.

Ser. No. 158,410. (CLASS 38. PRINTS AND PUBLICATIONS.) ASSOCIATED EDITORS, Chicago, Ill. Filed Jan. 25, 1922.

THE PLAY MAN'S GAMES

Particular description of goods.—Section of a Daily, Weekly, or Monthly Periodical Devoted to Games.

Claims use since Dec. 10, 1921.

Ser. No. 158,462. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAMS PATENT CRUSHER & PULVERIZER CO., St. Louis, Mo. Filed Jan. 25, 1922.

MAMMOTH

Particular description of goods.—Crushers and Like Machines.

Claims use since July 27, 1916.

Ser. No. 158,498. (CLASS 12. CONSTRUCTION MATERIALS.) WARREN BROTHERS COMPANY, Boston, Mass. Filed Jan. 26, 1922.

ASBESTOS-BITULITHIC

Particular description of goods.—Pavements and Paving Material Containing Bituminous Matter.

Claims use since January 20, 1921.

Ser. No. 158,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE YEAST TABLET Co., South Bend, Ind. Filed Jan. 26, 1922.

EETAYEAST

Particular description of goods.—Food Tonic Containing Vitamines of Yeast.

Claims use since Jan. 2, 1922.

Ser. No. 158,522. (CLASS 12. CONSTRUCTION MATERIALS.) THE DURAFLEX COMPANY, Baltimore, Md. Filed Jan. 27, 1922.



Particular description of goods.—Plastic Floor Covering to be Applied with a Trowel.

Claims use since Dec. 19, 1921.

Ser. No. 158,543. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT T. STEVENSON, doing business as The Stevenson Sales Company, Chicago, Ill. Filed Jan. 27, 1922.

Ideal

Particular description of goods.—Can Opener.

Claims use since October, 1914.

Ser. No. 158,556. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.



Particular description of goods.—Winding Frames.

Claims use since 1892.

Ser. No. 158,558. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.



Particular description of goods.—Reel Mills.

Claims use since 1892.

Ser. No. 158,606. (CLASS 39. CLOTHING.) DEVON MANUFACTURING COMPANY, INC., Brooklyn, N. Y. Filed Jan. 30, 1922.

Tumble-in

Particular description of goods.—Play Suits and Overalls.

Claims use since June 2, 1921.

Ser. No. 158,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PALMERS, LIMITED, doing business as Minty, Montreal, Quebec, Canada. Filed Jan. 30, 1922.

Gay Paree

Particular description of goods.—Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Face Powders, Compact Face Powders, Liquid Face Powders, Compact Rouges, Liquid Rouges, Talcum Powders, Eyebrow and Eyelash Growers, Eyebrow Pencils, Eyedrops, Face Bleaches, Hair Salves, Shampoos, Skin Lotions, Hand Lotions, Lip Sticks, Bath Salts, Witch-Hazel Salves, Chemical Preparations for Softening of the Cuticle, Nail Polishes, Nail Bleaches, Toilet Waters, Perfumes, and Hair Tonics.

Claims use since Jan. 9, 1922.

Ser. No. 158,680. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 31, 1922.

Spiffy

Jiffy

Particular description of goods.—Baby Pants.

Claims use since Jan. 10, 1922.

Ser. No. 158,681. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Jan. 31, 1922.

SPIFFY

Particular description of goods.—Baby Pants.
Claims use since Jan. 10, 1922.

Ser. No. 158,704. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CARROSSERIE VAN DEN PLAS, SOCIÉTÉ ANONYME, Brussels, Belgium. Filed Feb. 1, 1922.



"Société-Anonyme, Carrosserie and Bruxelles" disclaimed.

Particular description of goods.—Motor-Car Bodies, Parts, and Accessories—Namely, Mud Guards, Wind Shields, Hoods, Collapsible Seats, and Baggage Holders.
Claims use since Sept. 1, 1921.

Ser. No. 158,712. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HALE BROS., INC., San Francisco, Calif. Filed Feb. 1, 1922.

IRON THREAD

Particular description of goods.—Tablecloths and Napkins.
Claims use since Aug. 1, 1921.

Ser. No. 158,878. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOFT, INCORPORATED, New York, N. Y. Filed Feb. 4, 1922.

LOFTTRONE

Particular description of goods.—Candies.
Claims use since Jan. 10, 1922.

Ser. No. 158,884. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH BRUCE MILLER, Indianapolis, Ind. Filed Feb. 4, 1922.



Particular description of goods.—Fire-Extinguishing Composition.
Claims use since Jan. 1, 1922.

Ser. No. 158,985. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 7, 1922.

KEN

Particular description of goods.—Detergent Preparations—Namely, Soap Powders.
Claims use since about November, 1921.

Ser. No. 158,986. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 7, 1922.

KOREX

Particular description of goods.—Detergent Preparations—Namely, Soap Products.
Claims use since about Jan. 19, 1922.

Ser. No. 159,014. (CLASS 39. CLOTHING.) CHARLES T. DAVIES, Reading, Pa. Filed Feb. 8, 1922.

Mavis

Particular description of goods.—Hosiery.
Claims use since Oct. 4, 1921.

Ser. No. 159,034. (CLASS 39. CLOTHING.) HAUSER & WEIL, New York, N. Y. Filed Feb. 8, 1922.



Particular description of goods.—Belts for Men, Women, and Children.
Claims use since Nov. 4, 1915.

Ser. No. 159,097. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) LINDENHURST MANUFACTURING CO., Lindenhurst, N. Y. Filed Feb. 9, 1922.

LUSTERITE

Trade-mark "Lusterite."
Particular description of goods.—Horn Buttons.
Claims use since October, 1921.

Ser. No. 159,192. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed Feb. 10, 1922.

LA CROSSE

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Jan. 21, 1922.

Ser. No. 159,195. (CLASS 32. FURNITURE AND UPHOLSTERY.) AMERICAN CHAIR COMPANY, Sheboygan, Wis. Filed Feb. 11, 1922.

MERIKORD

Particular description of goods.—Household Chairs, Rockers, Tables, Beds, Dressers, Desks, and Fiber Office Furniture.
Claims use since Jan. 17, 1922.

Ser. No. 159,237. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHARLES A. GOODSPEED, doing business as The Remind-O-Meter Company, Highland Park, Mich. Filed Feb. 11, 1922.

REMIN-D-O-METER

Particular description of goods.—Hand - Operated Counting Registers.
Claims use since Oct. 1, 1921.

Ser. No. 159,314. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HO-RO-CO MANUFACTURING COMPANY, St. Louis, Mo. Filed Feb. 14, 1922.

Ho-Ro-Co

Particular description of goods.—Talcum Powder, Complexion Powder, Depilatory Powder, Petroleum Jelly, Almond Cream, Cold Cream, Vanishing Cream, Massage Cream, Hair Restorer for Promoting the Growth of the Hair, Hair Tonic and Dandruff Remedy, Hair Shampoo, Bay Rum, Compact Face Powder, Face Rouge, Lip Rouge, Eyebrow Pencils, Nail Polish, Toilet Water, Blood and Nerve Tonic, Laxative Tablets; Liniment for the Treatment of Sprains, Bruises, Stiff Muscles, Insect Bites, Lumbago, Muscular Rheumatism, Neuralgia, Sciatica, Chilblains, Muscular Cramps, Wind Colic, Pleurisy, Bronchial Cough, and Spasmodic Croup; Cough Syrup, Medicated Salve for Cuts, Burns, Bruises, Sores, Boils, Skin Diseases, Piles, Catarrh, Oak and Ivy Poisoning, and Insect Bites; Medicated Oil for Internal and External Use for the Relief of Pain, Headache, Hay Fever, Asthma, Coughs, and Cramps; Headache Tablets, Tablets for the Relief of Colds, Corn Plasters, Liver Pills, Kidney Pills, Baking Powder, and Insect Powder.

Claims use since about June 1, 1914.

Ser. No. 159,357. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HAYS-RADEN COMPANY, Philadelphia, Pa. Filed Feb. 15, 1922.

SO-PEL-PER

Particular description of goods.—Cleanser for Cleaning Clothes, Silverware, Dishes, Cooking Utensils, Woodwork, Windows, and the Like.

Claims use since about Jan. 10, 1922.

Ser. No. 159,389. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES G. TAYLOR, doing business as The Bok-A-Bel Medicine Co., Peoria, Ill. Filed Feb. 15, 1922.



Particular description of goods.—Compound for Treating Catarrh, Asthma, and Colds.
Claims use since Dec. 20, 1920.

Ser. No. 159,394. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & Co., INC., Long Island City, N. Y. Filed Feb. 15, 1922.

POLLY PRIM

Particular description of goods.—Snap Fasteners.
Claims use since Jan. 27, 1922.

Ser. No. 159,499. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHERAMY, INC., New York, N. Y. Filed Feb. 18, 1922.

APRIL SHOWERS

Particular description of goods.—Perfumes, Toilet Waters, Face Powders, Toilet Powders, Sachets, Rouges, Brilliantine, and Face Cream.
Claims use since Dec. 3, 1921.

Ser. No. 159,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM KHOURY, Manchester, N. H. Filed Feb. 18, 1922.

MASTIKA

Particular description of goods.—Medicine for Menorrhagia, Metrorrhagia, Backache, and Menstrual Fever.
Claims use since Feb. 6, 1919.

Ser. No. 159,554. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON-DIXIE CORPORATION, Chicago, Ill. Filed Feb. 20, 1922. Under ten-year proviso.

Burton

Particular description of goods.—Comforters.
Claims use since 1894.

Ser. No. 159,752. (CLASS 37. PAPER AND STATIONERY.) GUILD PRODUCTS CORPORATION, Philadelphia, Pa. Filed Feb. 24, 1922.



Particular description of goods.—Blank Books, Loose-Leaf-Ledger Binders, Loose-Leaf Sheets, Indexes for Loose-Leaf Equipment, Post Binders, Loose-Leaf Ring Binders, Stenographers' Note Books, Typewriting Paper, Paper, Scratch Pads, Tablets, Envelopes, Diaries, Blotting Paper, Columnar Pads, Box Files, Pens Steel, Penholders, Pencils, Rubber Bands, Rubber Erasers, Card Cabinets, Index Cards, Guide Cards, Folders, Vertical File Guides, Pencil Sharpeners, Fountain Pens, Desk Pads, Clips, Clamps, Fasteners.
Claims use since Feb. 17, 1922.

Ser. No. 159,769. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ENOCH S. ROGERS, trading as E. S. Rogers Mfg. Co., Philadelphia, Pa. Filed Feb. 24, 1922.

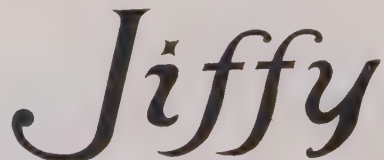


No claim to words "The" and "They Propel It Along" apart from remainder of mark shown.

Particular description of goods.—Children's Three-Wheel Propelling Cars.

Claims use since about Dec. 1, 1921.

Ser. No. 159,785. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FREDERICK O. BERG, doing business as the F. O. Berg Company, Spokane, Wash. Filed Feb. 25, 1922.



Particular description of goods.—Shelter Tents of Canvas or Other Fabric.

Claims use since Jan. 2, 1921.

Ser. No. 159,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH COUNORD, Talence, near Bordeaux, France. Filed Feb. 25, 1922.



No claim is made to words "Vin Reconstituant" apart from mark shown.

Particular description of goods.—Tonic Wine Used for Anæmia, Convalescence, Low Vitality, and as a General Tonic.

Claims use since 1912.

Ser. No. 159,840. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLENN F. BOWMAN and CHARLES F. C. ARENSBERG, Pittsburgh, Pa. Filed Feb. 27, 1922.

MU-SOL-DENT

Particular description of goods.—Dentifrice.

Claims use since Jan. 16, 1922.

Ser. No. 159,886. (CLASS 43. THREAD AND YARN.) REGINALD REYNOLDS, Riverside, Conn. Filed Feb. 27, 1922.

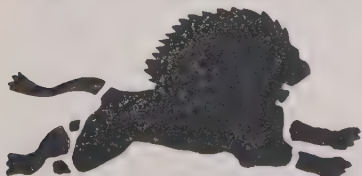
Needlength

Particular description of goods.—Embroidery Yarns and Sewing Threads.

Claims use since January, 1921.

Ser. No. 159,993. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BUCKNER PROCESS COMPANY, Worcester, Mass. Filed Mar. 1, 1922.

LION PAW BELTING

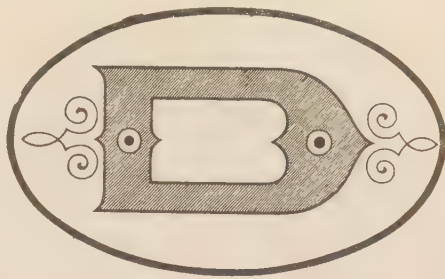


No claim to exclusive right to word "Belting" except as accompanied by applicant's trade-mark.

Particular description of goods.—Textile Belting.

Claims use since June, 1921.

Ser. No. 160,001. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) DIACK BROS., Troy, N. Y. Filed Mar. 1, 1922.



The lines shown on drawing are for shading only.

Particular description of goods.—Hairbrushes, Clothes Brushes, and Shoe Brushes.

Claims use since June, 1921.

Ser. No. 160,066. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM T. KRUSCH, doing business as Duplex Products Co., Norwalk, Conn. Filed Mar. 2, 1922.

CREAMINIZED

Particular description of goods.—Shampoo Cream.

Claims use since Feb. 1, 1920.

Ser. No. 160,107. (CLASS 40. FANCY GOODS, FURNISHINGS AND NOTIONS.) THE AMERICAN FASTENER COMPANY, Waterbury, Conn. Filed Mar. 3, 1922.



Particular description of goods.—Snap Fasteners.

Claims use since 1916.

Ser. No. 160,114. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CROFTS & REED CO., Chicago, Ill. Filed Mar. 3, 1922.

OLIVE- BOUQUET

No claim to the word "Olive" apart from the mark shown.

Particular description of goods.—Toilet Soaps.

Claims use since February, 1919.

Ser. No. 160,292. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMON MARKMAN, New York, N. Y. Filed Mar. 7, 1922.



Particular description of goods.—Shampoo and Hair Wash.

Claims use since Jan. 10, 1922.

Ser. No. 160,303. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STA-RITE HAIR PIN CO., Shelbyville, Ill. Filed Mar. 7, 1922.

STA-RITE

Particular description of goods.—Hair Pins.

Claims use since 1917.

Ser. No. 160,338. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EUGENE ELLIS CO. INC., New Orleans, La. Filed Mar. 8, 1922.



No claim made to the exclusive use of words "Suiting" and "The Genuine Imported Fabric" apart from mark shown. The horizontal lining on drawing represents shading.

Particular description of goods.—Cotton Piece Goods.

Claims use since Jan. 27, 1922.

Ser. No. 160,346. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.



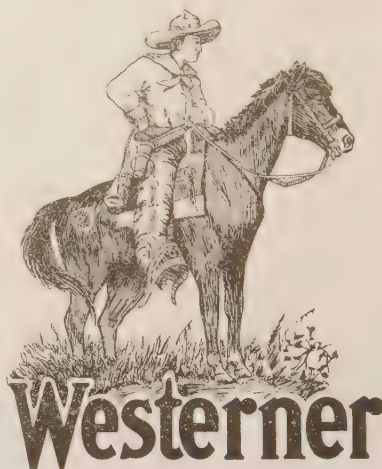
Roamer

No claim is made herein to the picture of a buffalo apart from mark shown.

Particular description of goods.—Wheat Flour.

Claims use since about July 15, 1918.

Ser. No. 160,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.



Particular description of goods.—Wheat Flour.

Claims use since about July 15, 1918.

Ser. No. 160,349. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOYLAND FLOUR MILLS COMPANY, Kansas City, Mo. Filed Mar. 8, 1922.



Lines within panel indicate blue color, lines on the border indicate green.

Particular description of goods.—Wheat Flour.

Claims use since about July 15, 1918.

Ser. No. 160,414. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AUGUST E. KIHN, doing business as Injun Washing Powder, Philadelphia, Pa. Filed Mar. 9, 1922.



No claim being made to the words "Washing Powder" apart from mark shown in drawing.

Particular description of goods.—Washing Powder.

Claims use since May 10, 1921.

Ser. No. 160,448. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE WOOSTER BRUSH COMPANY, Wooster, Ohio. Filed Mar. 9, 1922.

SHASTA

Particular description of goods.—Brushes—Namely, Painbrushes, Varnish Brushes, Whitewash and Calcimine Brushes, Wall Brushes, Horse Brushes, Hairbrushes, and Flesh Brushes.

Claims use since 1912.

Ser. No. 160,449. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE WOOSTER BRUSH COMPANY, Wooster, Ohio. Filed Mar. 9, 1922. Under ten-year proviso.

Particular description of goods.—Brushes—Namely, Painbrushes, Varnish Brushes, Whitewash and Calcimine Brushes, Wall Brushes, Horse Brushes, Hairbrushes, and Flesh Brushes.

Claims use since 1880.

Ser. No. 160,460. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

TALCOZONE

Particular description of goods.—Talcum Powder.
Claims use since 1909.

300 O. G.—12

Ser. No. 160,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

NUTRIX

Particular description of goods.—Deodorant.
Claims use since 1912.

Ser. No. 160,463. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

BIFF

Particular description of goods.—Hair Remover.
Claims use since 1911.

Ser. No. 160,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

ABSORBO

Particular description of goods.—Hair Tonic Relieving Excessive Oil.
Claims use since 1912.

Ser. No. 160,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

LILY MILK

Particular description of goods.—Liquid Face Powder.
Claims use since 1909.

Ser. No. 160,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

ANTILINE

Particular description of goods.—Preparation for Crow's-Feet.
Claims use since 1909.

Ser. No. 160,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

AURA-FOAM

Particular description of goods.—Shampoo.
Claims use since 1908.

Ser. No. 160,469. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

LILIOZONE

Particular description of goods.—Preparation for Chapped Hands.
Claims use since 1910.

Ser. No. 160,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

Fairy Fluff

Particular description of goods.—Face Powder.
Claims use since 1914.

Ser. No. 160,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

LUSTROZONE

Particular description of goods.—Brilliantine.
Claims use since 1910.

Ser. No. 160,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

TROIS FLEURS

Particular description of goods.—Perfume, Toilet Water, Sachets, and Other Toilet Preparations.
Claims use since 1915.

Ser. No. 160,476. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

HERB-OL

Particular description of goods.—Hot Preparation Used in Oil Scalp Treatments.
Claims use since 1914.

Ser. No. 160,478. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

CREMOZONE

Particular description of goods.—Facial Cream.
Claims use since 1908.

Ser. No. 160,499. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) S. LIEBMANNS SONS, INC., New York and Brooklyn, N. Y. Filed Mar. 10, 1922.

G-O-S

Particular description of goods.—A Malt Soft Drink.
Claims use since Oct. 26, 1921.

Ser. No. 160,509. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

Stim-u-Plex

Trade-mark "Stim-u-Plex."
Particular description of goods.—Toilet Powder.
Claims use since Mar. 3, 1922.

Ser. No. 160,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

STIMULES

Trade-mark "Stim ules."
Particular description of goods.—General Tonic in Tablet Form.
Claims use since Mar. 3, 1922.

Ser. No. 160,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

Stimulene

"Stimulene" (Trade-mark).
Particular description of goods.—Toilet Cream.
Claims use since Mar. 3, 1922.

Ser. No. 160,512. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

STIMS

Trade-mark "Stims."

Particular description of goods.—Headache Medicine in Tablet Form.

Claims use since Mar. 3, 1922.

Ser. No. 160,513. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STIMULE COMPANY, INC., New York, N. Y. Filed Mar. 10, 1922.

Stim-u-Lax

Trade-mark "Stim-u-Lax."

Particular description of goods.—Laxative Medicine in Liquid Form.

Claims use since Mar. 3, 1922.

Ser. No. 160,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALICE S. WILDES, doing business as Alys, New York, N. Y. Filed Mar. 10, 1922.

SHEIK

Particular description of goods.—Perfumes.

Claims use since Oct. 3, 1921.

Ser. No. 160,528. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KAI ANTONSEN, Chicago, Ill. Filed Mar. 11, 1922.

CAROLA

Particular description of goods.—Maltless Soft Drinks and Sirups for Making the Same.

Claims use since Feb. 16, 1922.

Ser. No. 160,558. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK MERCHANTISE COMPANY, New York, N. Y. Filed Mar. 11, 1922.

Prize Baby

Particular description of goods.—Safety Pins.

Claims use since Jan. 25, 1922.

Ser. No. 160,559. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK MERCHANTISE COMPANY, New York, N. Y. Filed Mar. 11, 1922.

Jiffy

Particular description of goods.—Safety Pins.

Claims use since Jan. 25, 1922.

Ser. No. 160,584. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. B. CULTURE LABORATORY, INC., Yonkers, N. Y. Filed Mar. 13, 1922.

B.A.

Particular description of goods.—Culture of Lactic Bacilli for Medicinal Use in Gastro-Intestinal Disorders, for Diseases Caused by the Absorption or Retention of Morbid Products, and for Local Use in Diseased Cavities.

Claims use since Mar. 7, 1922.

Ser. No. 160,624. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATURAL LIFE FACE BEAUTIFIER COMPANY, St. Louis, Mo. Filed Mar. 13, 1922.



Particular description of goods.—Skin Lotion.

Claims use since Sept. 1, 1921.

Ser. No. 160,709. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. KOHNSTAMM & Co., INC., New York, N. Y. Filed Mar. 15, 1922.

ATLAS

Particular description of goods.—Hot and Cold Sour for Laundry Purposes and in Treating Textiles.

Claims use since January, 1921.

Ser. No. 160,714. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) LITTLE GIANT COMPANY, Mankato, Minn. Filed Mar. 15, 1922.

DRAFT- OMETER

Particular description of goods.—Machine for Measuring Weight or Pull.
Claims use since 1916.

Ser. No. 160,734. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WILLSON GOGGLES, INC., Reading, Pa. Filed Mar. 15, 1922.

W

Particular description of goods.—Goggles and Protection Glasses.
Claims use since Mar. 6, 1922.

Ser. No. 160,882. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) FREDERICK F. FULTON, doing business as Oiltrol Piston Ring Co., Philadelphia, Pa. Filed Mar. 18, 1922.

OILTROL



No claim to the representation of the piston ring apart from the mark shown.

Particular description of goods.—Piston Rings.
Claims use since Mar. 11, 1922.

Ser. No. 160,972. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE PARTS SERVICE COMPANY, Cleveland, Ohio. Filed Mar. 20, 1922.

Hyklas

Particular description of goods.—Automotive Parts—Namely, Spindle Bolts, Steering Knuckle Bolts, Ringbolts, Tie-Rod Bolts, Spring Bolts, and Nuts.
Claims use since May 25, 1920.

Ser. No. 161,002. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed Mar. 21, 1922.

ENCORE

Particular description of goods.—Writing Paper and Ledger.
Claims use since Jan. 28, 1922.

Ser. No. 161,049. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAMES A. HAYES, New York, N. Y. Filed Mar. 22, 1922.

FLAPPER

Particular description of goods. Dolls.
Claims use since Feb. 23, 1922.

Ser. No. 161,085. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922.

MUSSINI

The name "Mussini" is the name of the Italian painter, deceased 1888.

Particular description of goods.—Artists' Brushes.
Claims use since Jan. 1, 1921.

Ser. No. 161,114. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) DIAMOND BRAIDING MILLS, Chicago Heights, Ill. Filed Mar. 23, 1922.

Square

Particular description of goods.—Shoe Laces.
Claims use since Nov. 15, 1921.

Ser. No. 161,120. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ECKENROTH VALVE AND MANUFACTURING Co., Philadelphia, Pa. Filed Mar. 23, 1922.

ECKENROTH

Particular description of goods.—Metallic Valves.
Claims use since Dec. 11, 1920.

Ser. No. 161,147. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRED REES, doing business as The Remo Manufacturing Co., Meriden, Conn. Filed Mar. 23, 1922.

*Little
Cherub*

Particular description of goods.—Safety Pins.
Claims use since Jan. 2, 1922.

Ser. No. 161,148. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRED REES, doing business as The Remo Manufacturing Co., Meriden, Conn. Filed Mar. 23, 1922.

LITTLE SWEETHEART

Particular description of goods.—Safety Pins.
Claims use since Jan. 2, 1922.

Ser. No. 161,158. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) UNITED MANUFACTURING TRIMMING CO. INC., New York, N. Y. Filed Mar. 23, 1922.



Particular description of goods.—Buttons, Buckles, Girdles, Beads and Spangles Made of a Combination of Matter Resembling Horn, and Trimmings and Ornaments of Said Combination for Dresses, Suits, Coats, and Cloaks.

Claims use since July 28, 1921.

Ser. No. 161,164. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ROYAL ELECTROTYPE COMPANY, Philadelphia, Pa. Filed Mar. 23, 1922.



No claim is made to the exclusive right to the word "Quality" other than in the collocation shown.

Particular description of goods.—Electrotypes of All Kinds, Particularly Lead Process Plates in Copper and Nickel Steel.

Claims use since on or about Apr. 22, 1921.

Ser. No. 161,165. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) S. F. BOWSER & COMPANY, Inc., Fort Wayne, Ind. Filed Mar. 24, 1922.

LUBE-STER

Particular description of goods.—Dispensers, and Measuring Pumps and Meters, for Liquid Fuels and Lubricants.
Claims use since Feb. 11, 1922.

Ser. No. 161,204. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MARGARET J. SMITH, doing business as The U Z A Manufacturing Co. (not Inc.), Chicago, Ill. Filed Mar. 24, 1922.

UZA

Particular description of goods.—Curtain Holders.
Claims use since Feb. 20, 1922.

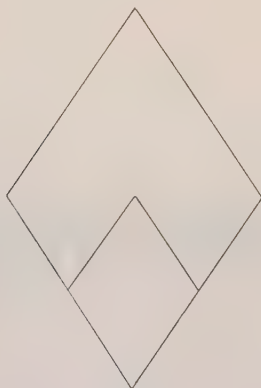
Ser. No. 161,205. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SUPERIOR MANUFACTURING CO., Massillon, Ohio. Filed Mar. 24, 1922.

SUPERALU

Particular description of goods.—Aluminum Lipped Saucepans, Convex Saucepans, Pots and Kettles, Saucepans and Kettles (Inset Covers), Bulged Kettles, Saucepans and Pots, Pitchers, Coffeepots, Teapots, Percolators, Heat Retainers, Combined Egg Poachers, Bake Dishes and Deep Fry Pans, Roasters, Teakettles, Dish Pans, Tubed Cake Pans, Strainer-Cover Saucepans and Kettles, Washbasins, Steam Cookers, Dippers, Stewpans, Individual Bean Pots, Square Jelly-Cake Pans, Colanders, Covered Windsor Kettles, Covered Inset Steamers, Lipped Preserving Kettles, Sink Strainers, Pudding Pans, Pie Plates, Ladles, Drinking Cups, Fry Pans, Griddles, Soup Strainers, Bread Pans, Biscuit Pans, Muffin Pans, Double Boilers, Cuspidors, Combination Cookers, Bowls, and Round Jelly-Cake Pans.

Claims use since April, 1919.

Ser. No. 161,218. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WONTSHED BRUSH CO., Troy, N. Y. Filed Mar. 24, 1922.



Particular description of goods.—Shaving Brushes.
Claims use since Feb. 1, 1922.

Ser. No. 161,221. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LTD., New York, N. Y. Filed Mar. 25, 1922.

AMLITE

Particular description of goods.—Powder Consisting of Cellulose Acetate or Cellulose Esters or Cellulose Ethers with other Ingredients and Which is Used in the Manufacture of Moldings or Casings or as a Filling Material.

Claims use since Jan. 31, 1922.

Ser. No. 161,226. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

LIGHTHOUSE

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,227. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

PILOT

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,228. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

CAPSTAN

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,229. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

BINNACLE

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,230. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

ANCHOR

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,231. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

SEARCHLIGHT

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,232. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & CO., Chicago, Ill. Filed Mar. 25, 1922.

RING BUOY

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,276. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) CHAS. A. SCHIEREN COMPANY, New York, N. Y. Filed Mar. 25, 1922. Under ten-year proviso.

PLANER-BELT.

Particular description of goods.—Leather Belting.
Claims use since May 22, 1888.

Ser. No. 161,287. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 25, 1922.



Particular description of goods.—Hose Made of Cotton and Rubber and Hose Made of Linen.
Claims use since November, 1919.

Ser. No. 161,289. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) SYDNEY B. WERTHEIMER, New York, N. Y. Filed Mar. 25, 1922.

Vanity Fair

Particular description of goods.—Combined Vanity Case and Corsage Shield.

Claims use since Mar. 15, 1922.

Ser. No. 161,468. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOODSTOCK MANUFACTURING CO., INC., Rochester, N. Y. Filed Mar. 29, 1922.

GRO-KAR

Particular description of goods.—Children's Coaster Cars.

Claims use since June 14, 1921.

Ser. No. 161,469. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOODSTOCK MANUFACTURING CO., INC., Rochester, N. Y. Filed Mar. 29, 1922.

DUCKYDOO

Particular description of goods.—Children's Rockers.
Claims use since Mar. 14, 1919.

Ser. No. 161,526. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE E. T. BURROWS COMPANY, Portland, Me. Filed Mar. 31, 1922.

LADRET

Particular description of goods.—Short Ladder of the Type Known as Stepladder.
Claims use since Mar. 15, 1922.

Ser. No. 161,734. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE MID WEST GLASS COMPANY, Cincinnati, Ohio. Filed Apr. 4, 1922.

MID-WEST



Particular description of goods.—Fluid Gauges.
Claims use since Mar. 18, 1922.

Ser. No. 161,768. (CLASS 33. GLASSWARE.) R. E. DIETZ COMPANY, New York, N. Y. Filed Apr. 5, 1922.

SCOUT

Particular description of goods.—Glass Globes for Lanterns.
Claims use since about Dec. 1, 1921.

Ser. No. 161,780. (CLASS 37. PAPER AND STATIONERY.) WILLIAM H. INGERSOLL, New York, N. Y. Filed Apr. 5, 1922.

Ingersoll

The mark consists of the facsimile surname signature of the applicant herein.

Particular description of goods.—Pencils.
Claims use since Mar. 24, 1922.

Ser. No. 161,798. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING CO., Danvers, Mass. Filed Apr. 5, 1922.

FEDERAL

Particular description of goods.—Wax and Chalk Crayons.
Claims use since March, 1918.

Ser. No. 161,819. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CARTER MOTOR ACCESSORIES, INC., Buffalo, N. Y. Filed Apr. 6, 1922.



No claim is made to the word "Products" apart from mark shown in drawing.

Particular description of goods.—Oil Gauges.
Claims use since Feb. 17, 1922.

Ser. No. 161,873. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CARDINAL SILK COMPANY, Scranton, Pa. Filed Apr. 7, 1922.



Particular description of goods.—Silk Piece Goods.
Claims use since about Dec. 15, 1921.

Ser. No. 161,901. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SEPT CINEMA CAMERA DISTRIBUTORS, INC., New York, N. Y. Filed Apr. 7, 1922.



Particular description of goods.—Cinema Cameras.
Claims use since Jan. 1, 1922.

Ser. No. 161,917. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLONY MILLS, INC., New York, N. Y. Filed Apr. 8, 1922.



Particular description of goods.—Cotton Piece Goods and Drapery Fabrics of Cotton, Silk and Cotton, and Silk-Mixture Piece Goods.

Claims use since Dec. 10, 1921.

Ser. No. 161,952. (CLASS 38. PRINTS AND PUBLICATIONS.) WALTER R. ALLMAN, Cleveland, Ohio. Filed Apr. 10, 1922.

THE GREAT AMERICAN HOME

Particular description of goods.—Pictures and Cartoons Published in Newspapers and Magazines.

Claims use since about Jan. 1, 1914.

Ser. No. 162,102. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DENZER & NATHAN, INC., New York, N. Y. Filed Apr. 11, 1922.

PERMAFAST

"Permafast."

Particular description of goods.—Piece Goods Manufactured from Cotton or Other Fiber.

Claims use since Apr. 4, 1922.

Ser. No. 162,138. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SANFORD MILLS, Sanford, Me., and Boston, Mass. Filed Apr. 11, 1922.

MILLAIS

Particular description of goods.—Pile Fabrics Made Wholly or in Part of Hair or Wool.

Claims use since Mar. 8, 1922.

Ser. No. 162,164. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed Apr. 12, 1922.

MUTUAL

Particular description of goods.—Hooks and Eyes, Hook and Eye Tape, and Safety Pins.

Claims use since June, 1900.

Ser. No. 162,182. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LUDLOW MANUFACTURING ASSOCIATES, Boston, Mass. Filed Apr. 12, 1922.

L F G

Trade-mark "L F G."

Particular description of goods.—Jute Webbing.

Claims use since Dec. 31, 1917.

Ser. No. 162,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOCKMEYER BROS., New York, N. Y. Filed Apr. 13, 1922.

TweeDuroy

Trade-mark "Twee Duroy."

Particular description of goods.—Cotton Piece Goods—viz, Corduroy.

Claims use since Apr. 5, 1922.

Ser. No. 162,282. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUFFALO OPTICAL COMPANY, INC., Buffalo, N. Y. Filed Apr. 14, 1922.

Magniwate

Particular description of goods.—Glass Paper Weights Shaped to Form Optical Lenses.

Claims use since Nov. 21, 1921.

Ser. No. 162,335. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRIBBON COMPANY, INC., New York, N. Y. Filed Apr. 15, 1922.

"ETONIA"

Trade-Mark "Etonia."

Particular description of goods.—Cotton Handkerchiefs for Men, Women, Boys, and Children.

Claims use since July 2, 1909.

Ser. No. 162,347. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) J. A. LONG COMPANY, doing business as the Jalco Motor Company, Portland and Union City, Ind. Filed Apr. 15, 1922.

JALCO

Particular description of goods.—Cream Testers.
Claims use since December, 1915.

Ser. No. 162,402. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) L. M. GARRITY & Co., INC., Boston, Mass. Filed Apr. 17, 1922.

WONDERWAVERS

Trade-Mark "Wonderwavers."
Particular description of goods.—Hair Wavers, Hair Curlers, and Hair Crimpers.
Claims use since Jan. 6, 1921.

Ser. No. 162,463. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CHARLES H. SHAPIRO, doing business as the A-B-C Auto Radiator Works, Chicago, Ill. Filed Apr. 17, 1922.

A-B-C

Particular description of goods.—Radiators for Motor Vehicles.
Claims use since Sept. 16, 1920.

Ser. No. 162,477. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co., INC., New York, N. Y. Filed Apr. 18, 1922.

Shaggipui

Particular description of goods.—Pile Fabric in the Piece.
Claims use since Feb. 15, 1922.

Ser. No. 162,480. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Apr. 18, 1922.

Rapmole

Particular description of goods.—Pile Fabric in the Piece.
Claims use since Mar. 1, 1922.

Ser. No. 162,484. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) D. A. NEW COMER COMPANY, Los Angeles, Calif. Filed Apr. 18, 1922.

New Comer

Particular description of goods.—Trailers for Motor Vehicles.
Claims use since Apr. 4, 1919.

Ser. No. 162,491. (CLASS 12. CONSTRUCTION MATERIALS.) ELWOOD JONES, New York, N. Y. Filed Apr. 18, 1922.



Particular description of goods.—Lumber.
Claims use since 1892.

Ser. No. 162,535. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ROBERT DENELS, doing business as "Robert," New York, N. Y. Filed Apr. 19, 1922.



Particular description of goods.—Hair Nets.
Claims use since Jan. 1, 1922.

Ser. No. 162,576. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK Co., New York, N. Y. Filed Apr. 19, 1922.

E.H.C.

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.
Claims use since Feb. 13, 1905.

Ser. No. 162,577. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

F.N.C.

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.

Claims use since Apr. 12, 1906.

Ser. No. 162,578. (CLASS 37. PAPER AND STATIONERY.) ROSE & FRANK CO., New York, N. Y. Filed Apr. 19, 1922.

F.S.C.

Particular description of goods.—Tissue Paper Mainly Used for Carbonizing Purposes.

Claims use since Nov. 1, 1904.

Ser. No. 162,583. (CLASS 31. FILTERS AND REFRIGERATORS.) CAROLYN S. SMITH, doing business as the Vitalized Water Process Co., New York, N. Y. Filed Apr. 19, 1922.

VITILOR

Particular description of goods.—Filters.

Claims use since Mar. 30, 1922.

Ser. No. 162,672. (CLASS 37. PAPER AND STATIONERY.) EGGENS-HAMBLER COMPANY, Elizabeth, N. J., and New York, N. Y. Filed Apr. 21, 1922.



Particular description of goods.—Fountain Pens, Stylographic Pens and Pencils.

Claims use since Feb. 1, 1922.

Ser. No. 162,697. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ST. JOHN BROTHERS CO., Inc., New York, N. Y. Filed Apr. 21, 1922.

SAINTCO

Particular description of goods.—Fabrics Identified as Follows: Piece Dyed Chambray, Piece Dyed Chambray Shorts, Tickings, Piece Dyed Crash, Piece Dyed Crash Shorts, and Piece Dyed Suitings.

Claims use since on or about July 1, 1921.

Ser. No. 162,705. (CLASS 37. PAPER AND STATIONERY.) WEST DISINFECTING COMPANY, New York, N. Y. Filed Apr. 21, 1922.

General

Particular description of goods.—Paper Towels.

Claims use since Sept. 7, 1921.

Ser. No. 162,828. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHARLES HENRY LANDENBERGER, Philadelphia, Pa. Filed Apr. 24, 1922.

MARVEL

Particular description of goods.—Brooders and Hovers.

Claims use since July, 1915.

Ser. No. 162,855. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SHIPLEY-ALLEN INC., Dover, Del., and Pittsburgh, Pa. Filed Apr. 24, 1922.



No claim is made to words "Returning Oil Ring" or the representation of the goods.

Particular description of goods.—Piston Rings.

Claims use since Dec. 10, 1921.

Ser. No. 162,864. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLF DOLL CO. INC., New York, N. Y. Filed Apr. 24, 1922.



The representation of the doll is disclaimed apart from mark shown on drawing.

Particular description of goods.—Dolls.

Claims use since Apr. 14, 1922.

Ser. No. 162,906. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) STEWART & HOLMES DRUG Co., Seat'le. Wash. Filed Apr. 25, 1922.

Optimus

Particular description of goods.—Combs.

Claims use since Jan. 1, 1908.

Ser. No. 162,947. (CLASS 37. PAPER AND STATIONERY.) OSBORN PAPER COMPANY, Marion, Ind. Filed Apr. 26, 1922.

ROBIN RED BREAST

Particular description of goods.—Writing Tablets, Composition Books, Student Notebooks, Printing and Writing Tablets.

Claims use since 1915.

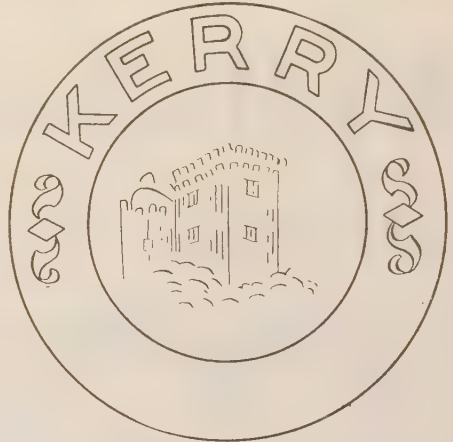
Ser. No. 162,981. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Apr. 27, 1922.

Aero

Particular description of goods.—Pile Fabric in the Piece.

Claims use since Mar. 7, 1922.

Ser. No. 163,061. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEST POINT MANUFACTURING COMPANY, Langdale, Ala. Filed Apr. 28, 1922.



Particular description of goods.—Crash, Towels, and Toweling.

Claims use since Mar. 24, 1922.

Ser. No. 163,072. (CLASS 37. PAPER AND STATIONERY.) THE ADVERTISER'S ART STUDIOS, INC., Washington, D. C. Filed Apr. 29, 1922.

"Adplus"

Particular description of goods.—Advertising Letter Folders.

Claims use since Jan. 1, 1922.

Ser. No. 163,073. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATCEMENT

Particular description of goods.—Stucco.

Claims use since Apr. 8, 1922.

Ser. No. 163,074. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATLASITE

Particular description of goods.—Stucco.

Claims use since Apr. 8, 1922.

Ser. No. 163,076. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATLASTA

Particular description of goods.—Stucco.
Claims use since Apr. 8, 1922.

Ser. No. 163,079. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y. Filed Apr. 29, 1922.

Glossyray

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Mar. 20, 1922.

Ser. No. 163,092. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922.

SUNRISE

Particular description of goods.—Writing, Printing, and Book Paper.
Claims use since November, 1919.

Ser. No. 163,105. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OSBORN MILLS, Fall River, Mass. Filed Apr. 29, 1922.

DE LUXE

Particular description of goods.—Cotton Pillow Tubing.
Claims use since Apr. 13, 1922.

Ser. No. 163,119. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. P. STEVENS & Co., New York, N. Y. Filed Apr. 29, 1922.

Cordalure

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 8, 1922.

Ser. No. 163,120. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. P. STEVENS & Co., New York, N. Y. Filed Apr. 29, 1922.

Mariano

Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 8, 1922.

Ser. No. 163,141. (CLASS 38. PRINTS AND PUBLICATIONS.) E. P. DUTTON & Co., New York, N. Y. Filed May 1, 1922.

THE CHILDREN'S HEROES

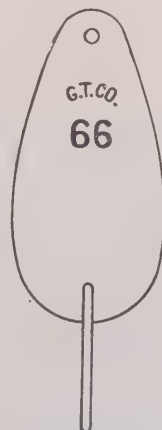
Particular description of goods.—Printed Books Published in Series.
Claims use since Apr. 9, 1906.

Ser. No. 163,142. (CLASS 38. PRINTS AND PUBLICATIONS.) E. P. DUTTON & Co., New York, N. Y. Filed May 1, 1922.

"TOLD TO THE CHILDREN"

Particular description of goods.—Printed Books Published in Series.
Claims use since Apr. 9, 1906.

Ser. No. 163,150. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GENEVA TACKLE Co., Geneva, N. Y. Filed May 1, 1922.

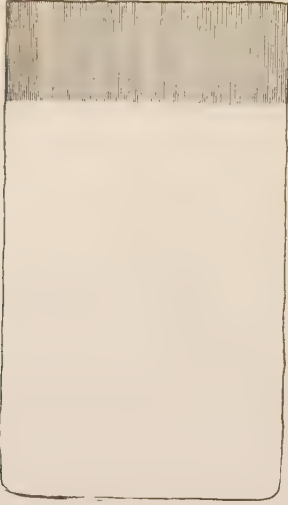


No claim is made to the representation of a spoon bait apart from mark shown.

Particular description of goods.—Fishing Tackle—Namely, Fishing Spoons.

Claims use since about April, 1917.

Ser. No. 163,204. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed May 1, 1922.



No claim made to representation of a bag aside from its connection with mark. Mark consists of a red band arbitrarily placed at top of bags containing the goods.

Particular description of goods.—Calcined Gypsum Wall Plasters.

Claims use since Mar. 15, 1922.

Ser. No. 163,214. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BELL SYNDICATE, INC., New York, N. Y. Filed May 2, 1922.

ADAMSON'S ADVENTURES

Particular description of goods.—Series of Cartoons.
Claims use since Apr. 17, 1922.

Ser. No. 163,352. (CLASS 38. PRINTS AND PUBLICATIONS.) POSTER ADVERTISING ASSOCIATION, Chicago, Ill. Filed May 4, 1922.

THE POSTER

Particular description of goods.—Monthly Publication.
Claims use since 1910.

Ser. No. 163,448. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KELLEY & CORWIN, New York, N. Y. Filed May 6, 1922.

LITTLE WONDER

Particular description of goods.—Toy Telephones.
Claims use since 1910.

Ser. No. 163,536. (CLASS 38. PRINTS AND PUBLICATIONS.) PURCHASING AGENTS ASSOCIATION OF WESTERN MASSACHUSETTS, Springfield, Mass. Filed May 8, 1922.

BUY-BETTER BULLETIN

Particular description of goods.—Periodical Published Monthly.

Claims use since May, 1921.

Ser. No. 164,096. (CLASS 38. PRINTS AND PUBLICATIONS.) BINDER BROTHERS, INC., New York, N. Y. Filed May 19, 1922.

The Link

Particular description of goods.—Monthly Publications.
Claims use since May 15, 1921.

Ser. No. 164,125. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

SUPREME

Particular description of goods.—Snapping Mottoes.
Claims use since December, 1921

Ser. No. 164,126. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

DANDY

Particular description of goods.—Snapping Mottoes.
Claims use since May 1, 1922.

Ser. No. 164,526. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed May 25, 1922.

RADIO

Particular description of goods.—Playing Cards.
Claims use since Apr. 14, 1922.

Ser. No. 164,611. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. Co., Burr Oak, Mich. Filed May 27, 1922.

Speed King

Particular description of goods.—Coaster Wagons.
Claims use since May, 1920.

Ser. No. 164,612. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. Co., Burr Oak, Mich. Filed May 27, 1922.

DIXIE FLYER

Particular description of goods.—Coaster Wagons.
Claims use since May, 1920.

Ser. No. 164,613. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. Co., Burr Oak, Mich. Filed May 27, 1922.

SHEFFIELD GREYHOUND

Particular description of goods.—Coaster Wagons.
Claims use since May, 1920.

Ser. No. 164,614. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. Co., Burr Oak, Mich. Filed May 27, 1922.

DARTAWAY

Particular description of goods.—Hand Sleds.
Claims use since May, 1920.

Ser. No. 164,615. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEFFIELD MFG. Co., Burr Oak, Mich. Filed May 27, 1922.

Lightning Express

Particular description of goods.—Coaster Wagons.
Claims use since May, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 4, 1922.

156,580. REFRIGERATING SYSTEMS AND PARTS THEREOF. THE AUTOMATIC REFRIGERATING CO., Hartford, Conn.

Filed February 17, 1922. Serial No. 159,453. PUBLISHED MARCH 21, 1922.

156,581. REFRIGERATORS. COLDAK COMPANY, Springfield, Mass.

Filed February 13, 1922. Serial No. 159,245. PUBLISHED MARCH 21, 1922.

156,582. FOUNTAIN PENS AND LEAD PENCILS. THE DICTATOR FOUNTAIN PEN COMPANY, INC., New York, N. Y.

Filed February 13, 1922. Serial No. 159,249. PUBLISHED MARCH 21, 1922.

156,583. CERTAIN NAMED TERRY-CLOTH PIECE GOODS, CLOTH TOWELS, WASH RAGS, TEXTILE MATS, AND TEXTILE BATHROOM RUGS. HOHLFELD MANUFACTURING COMPANY, Philadelphia, Pa.

Filed December 7, 1921. Serial No. 156,385. PUBLISHED MARCH 7, 1922.

156,584. RIFLES AND SHOTGUNS. THE MARLIN FIRE-ARMS CORPORATION, New Haven, Conn.

Filed December 7, 1921. Serial No. 156,398. PUBLISHED MARCH 28, 1922.

156,585. COTTON, SILK, AND LINEN GOODS AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK IN THE PIECE. JACOB MILLER SONS & Co., Philadelphia, Pa.

Filed December 12, 1921. Serial No. 156,587. PUBLISHED MARCH 21, 1922.

156,586. SILK IN THE PIECE. MUSER BROTHERS, New York, N. Y.

Filed December 17, 1921. Serial No. 156,842. PUBLISHED MARCH 7, 1922.

156,587. MEMORANDUM DEVICES. ARTHUR M. WAT-TERSON, Omaha, Nebr.

Filed January 30, 1922. Serial No. 158,662. PUBLISHED MARCH 21, 1922.

156,588. HAIR NETS. CHAS. WOLTON, New York, N. Y.

Filed January 26, 1922. Serial No. 158,499. PUBLISHED MARCH 28, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 4, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,589. (CLASS 12. CONSTRUCTION MATERIALS.)
CRESCENT REFRACTORIES COMPANY, Curwensville, Pa.
Filed Oct. 3, 1918. Serial No. 113,550.

BR 2

Particular description of goods.—Fire Brick and Tile
Manufactured from Fire Clay for Metallurgical Furnaces.
Claims use since November, 1900.

156,590. (CLASS 12. CONSTRUCTION MATERIALS.)
CRESCENT REFRACTORIES COMPANY, Curwensville, Pa.
Filed Oct. 3, 1918. Serial No. 113,552.

JUNIATA SL 1

Particular description of goods.—Fire Brick and Tile
Manufactured from Fire Clay for Metallurgical Furnaces.
Claims use since January, 1903.

156,591. (CLASS 12. CONSTRUCTION MATERIALS.)
CRESCENT REFRACTORIES COMPANY, Curwensville, Pa.
Filed Oct. 3, 1918. Serial No. 113,553.

JUNIATA SL 2

Particular description of goods.—Fire Brick and Tile
Manufactured from Fire Clay for Metallurgical Furnaces.
Claims use since January, 1903.

156,592. (CLASS 21. ELECTRICAL APPARATUS, MA-
CHINES, AND SUPPLIES.) ECLIPSE LIGHT COMPANY,
New York, N. Y., assignor to London Lightingwares
Corporation, a Corporation of New York. Filed Aug. 25,
1921. Serial No. 152,166.

LIGHTINGWARES

Particular description of goods.—Electric Fixtures—
Namely, Chandeliers, Wall Brackets, Table Lamps, Lan-
terns, Boudoir Lamps, Floor Lamps, Electroliers, Illumi-
nators, Ceiling Lights, Pendant Lights, Shower Lights,
Direct, Indirect, and Semi-Indirect Lights, Arc Lamps,
and Fuses; Electric Bells, Batteries, Switches, Sockets,
Plugs, Flash Lights; Electric Toasters, Electric Grills,
Electric Perculators, and Electric Curling Irons.
Claims use since July 1, 1920.

156,593. (CLASS 32. FURNITURE AND UPHOL-
STERY.) GANDELHOFF BROS., Minneapolis, Minn.
Filed Sept. 19, 1921. Serial No. 153,085.



Particular description of goods.—Bed Springs.
Claims use since Oct. 28, 1916.

156,594. (CLASS 35. BELTING, HOSE, MACHINERY
PACKING, AND NONMETALLIC TIRES.) THE GOETZE
GASKET AND PACKING COMPANY, North New Brunswick,
N. J. Filed Jan. 31, 1921. Serial No. 142,971.

GOETZE

Particular description of goods.—Machinery Packing
of Metal and Asbestos.
Claims use during and since year 1904.

156,595. (CLASS 27. HOROLOGICAL INSTRUMENTS.)
STEPHEN R. HOFFMAN, Brooklyn, N. Y. Filed Jan. 30,
1922. Serial No. 158,615.

HALLWATCH

Particular description of goods.—Watches, Dials, Move-
ments and Parts Thereof, and Watchcases.
Claims use since 1918.

156,596. (CLASS 27. HOROLOGICAL INSTRUMENTS.)
KEYLESS AUTO CLOCK COMPANY, New York, N. Y. Filed
Apr. 3, 1922. Serial No. 161,686.

PHINNEY-WALKER

Particular description of goods.—Clocks.
Claims use since 1910.

156,597. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) LUDWIG & LUDWIG, Chicago, Ill. Filed June 6, 1921. Serial No. 148,744.

LUDWIG

Particular description of goods.—Musical, Various Sound-Emitting and Percussion Instruments, Parts Thereof and Attachments Therefor, as Follows: Drums, Drummers' Traps, Tympanies, Xylophones, Bells, Tom-Toms, Cymbals, Pedals, Whistles, Tambourines, Rattles, Castanets, Triangles, Horns, Shot Cushions, Clog Mallets, Horse Trot Imitations, Tympani Heads, Banjo Heads, Tambourine Heads, Drumheads, Tone Blocks, Wood Blocks, Spurs, Cymbal Holders, Traps, Rooters, Reed Imitations, Drum Stands, Sand Blocks, Shooting Machines, Railroad Imitations, Cymbal Holders, Slings (Drum), Drum Rods, Practice Pads, Typewriter or Telegraph Imitation, Sticks (Drum and Tympani), Hammers (Bell and Xylophone), Stands (Bell).

Claims use since July 1, 1909.

156,598. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) O. B. MCCLINTOCK COMPANY, Minneapolis, Minn. Filed Feb. 6, 1922. Serial No. 158,939.

THE OUTWARD SIGN

OF INWARD SECURITY

Particular description of goods.—Electric Burglar Alarms and Housings, Timer Cases, and Relays Therefor.

Claims use since on or about Apr. 1, 1921.

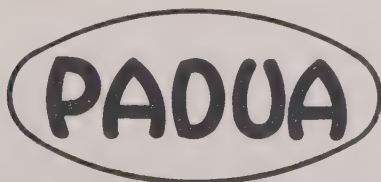
156,599. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed June 11, 1921. Serial No. 149,022.



Particular description of goods.—Portable Electric Lights and Dry Batteries.

Claims use since Apr. 18, 1921.

156,600. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PADUA "HOLD-UP" ALARM CORPORATION, Albany, N. Y. Filed Nov. 5, 1920. Serial No. 139,222.



Particular description of goods.—Hold-Up Alarms.

Claims use since Jan. 10, 1920.

156,601. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RELIABLE ELECTRIC COMPANY, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 137,892.



Particular description of goods.—Electrical Supplies—Namely, Copper Sleeves, Double-Tube Tinned Steel Sleeves; Single-Tube, Split, and Tinned Copper Cable Sleeves; Paper Sleeves, Cable Hangers, Cable Terminals, Cable-Insulating Compound; Tubular, Mica, Glass, and Fiber Fuses; Fuse Wire, Lightning Arresters, and Fuse Blocks; Light Arms, Protector Strips, Baby Knife Switches, Railroad Telephone Switches, Terminal Blocks, and Test Connectors.

Claims use since Jan. 1, 1910.

156,602. (CLASS 17. TOBACCO PRODUCTS.) THE TUCKETT TOBACCO COMPANY, LIMITED, Hamilton, London, and Montreal, Canada. Filed Mar. 5, 1921. Serial No. 144,359.

ORINOCO

Particular description of goods.—Smoking Tobacco, Cigars, and Cigarettes.

Claims use since Jan. 15, 1895.

156,603. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TRUMBULL-VANDERPOEL ELECTRIC MANUFACTURING CO., Bantam, Conn. Filed Jan. 5, 1922. Serial No. 157,541.

MASON SAFETY SWITCH

Particular description of goods.—Electric Safety Switches.

Claims use since June 1, 1920.

156,604. (CLASS 12. CONSTRUCTION MATERIALS.) CLIFFORD G. WOOLSON, Newark, N. J., and New York, N. Y. Filed Apr. 6, 1922. Serial No. 161,868.

E-Z-SET

Particular description of goods.—Sectional Burned-Clay Pipe Covering for Exposed Piping of All Kinds.

Claims use since June 20, 1916.

TRADE-MARK REGISTRATIONS RENEWED.

-
- | | |
|---|---|
| <p>20,563. ROOFING TIN. Registered January 5, 1892. N. & G. TAYLOR Co., Philadelphia, Pa.; N. & G. Taylor Co., Incorporated, a Corporation of Maryland, assignee. Renewed January 5, 1922.</p> <p>20,890. EYE LOTION. Registered March 22, 1892. SASSAFRAS EYE LOTION Co., Mauch Chunk, Pa. Renewed March 22, 1922.</p> <p>20,919. VARNISHES. Registered March 29, 1892. GEORGE L. WOOD & SON, Brooklyn and New York, N. Y.; Imperial Paint Company, assignee. Renewed March 29, 1922.</p> <p>21,004. LAGER BEER. Registered April 19, 1892. THE F. & M. SCHAEFER BREWING Co., New York, N. Y. Renewed April 19, 1922.</p> <p>21,221. STATIONARY AND LOCOMOTIVE INJECTORS AND EJECTORS. Registered May 31, 1892. THE HAYDEN & DERBY MFG. COMPANY, New York, N. Y.; Manning, Maxwell & Moore, Inc., a Corporation of New Jersey, assignee. Renewed May 31, 1922.</p> | <p>21,224. REFINED PETROLEUM FOR INTERNAL AND EXTERNAL USE AS A REMEDY FOR DISEASE. Registered May 31, 1892. ANGIER CHEMICAL COMPANY, Boston, Mass. Renewed May 31, 1922.</p> <p>21,359. NIGHT ROBES. Registered June 28, 1892. E. ROSENFELD & Co., Baltimore, Md. Renewed June 28, 1922.</p> <p>21,733. DENTIFRICE. Registered September 13, 1892. FLORENCE MANUFACTURING COMPANY, Northampton, Mass.; New York, N. Y., and Chicago, Ill.; Frank N. Look, William A. MacLeod, and George H. Burr, trustees and then successors, doing business as Florence Manufacturing Company, assignees. Renewed Sept. 13, 1922.</p> <p>21,734. LIQUORS AND CORDIALS. Registered September 13, 1892. GORDON & Co., London, England. Gordon's Dry Gin Co. Limited, assignee. Renewed September 13, 1922.</p> <p>21,933. PRINTERS' AND LITHOGRAPHERS' INK. Registered November 8, 1892. THE AULT WIBORG COMPANY, Cincinnati, Ohio. Renewed November 8, 1922.</p> |
|---|---|
-

LABELS

REGISTERED JULY 4, 1922.

- 24,612.—*Title*: "SELECT." (For Canned Vegetables—Namely, Tomatoes.) ANDERSON & NELSON, Brocton, Mass. Filed April 5, 1922.
- 24,613.—*Title*: "ARLE'S VICTORY POLISH." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) JOSEPH ARLE, Two Rivers, Wis. Filed November 7, 1921.
- 24,614.—*Title*: "COEUR DE VIOLETTE." (For Toilet Soap.) HARRIET HUBBARD AYRE, New York, N. Y. Filed April 23, 1921.
- 24,615.—*Title*: "DEPILATORY." (For Preparation for Removing Hair.) HARRIET HUBBARD AYRE, New York, N. Y. Filed April 23, 1921.
- 24,616.—*Title*: "DEPILATORY." (For Preparation for Removing Hair.) HARRIET HUBBARD AYRE, New York, N. Y. Filed April 23, 1921.
- 24,617.—*Title*: "COEUR DE VIOLETTE." (For Toilet Soap.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.
- 24,618.—*Title*: "BRILLIANTINE." (For Hair Preparations.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.
- 24,619.—*Title*: "COMPLEXION BALM." (For a Lotion for Beautifying the Skin.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.
- 24,620.—*Title*: "PRINCESS CHARMING." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.
- 24,621.—*Title*: "BEISTLE'S HALLOWE'EN HATS." (For Packages Containing Hallowe'en Hats.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.
- 24,622.—*Title*: "HALLOWE'EN PARTY TABLE DECORATIONS." (For Packages Containing Table Decorations for a Hallowe'en Party.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.
- 24,623.—*Title*: "BEISTLE'S HALLOWE'EN HATS." (For Packages Containing Hallowe'en Hats.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.
- 24,624.—*Title*: "BEISTLE'S HALLOWE'EN HAT MASKS." (For a Package of Hat Masks.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.
- 24,625.—*Title*: "BEISTLE'S—CHRISTMAS DECORATIONS FOR THE HOME." (For a Package of Christmas Decorations.) THE BEISTLE COMPANY, Shippensburg, Pa. Filed April 8, 1922.
- 24,626.—*Title*: "FIRE-CHIEF THE INFALLIBLE FIRE EXTINGUISHER." (For a Jar of Fire-Extinguisher Liquid.) BENSON PRODUCTS CO., New Rochelle, N. Y. Filed May 27, 1922.
- 24,627.—*Title*: "MONUMENT WRITING FLUID." (For Inks Known as Writing and Copying Fluid.) A. A. BROSHARS, Indianapolis, Ind., doing business as the Monument Ink Company. Filed May 6, 1922.
- 24,628.—*Title*: "CERTIFIED." (For Olives.) CALIFORNIA OLIVE ASSOCIATION, Los Angeles, Calif. Filed April 10, 1922.
- 24,629.—*Title*: "THE COUNTRY GENTLEMAN HANDKERCHIEF." (For Boxes Containing Handkerchiefs.) THOMAS CARTER & SONS, INC., New York, N. Y. Filed April 28, 1922.
- 24,630.—*Title*: "LADY ESTHER FOUR PURPOSE CREAM." (For Face Cream.) SYMA COHEN, Chicago, Ill. Filed April 28, 1922.
- 24,631.—*Title*: "THE CHILDRENS SHOE WORKERS' UNION OF NEW YORK STATE." (For Children's Shoes.) THE CHILDRENS SHOE WORKERS' UNION OF NEW YORK STATE, New York, N. Y. Filed May 9, 1922.
- 24,632.—*Title*: "WALNETTOS." (For Candy—Namely, Caramels.) J. N. COLLINS COMPANY, Minneapolis, Minn. Filed March 2, 1922.
- 24,633.—*Title*: "WALNETTOS." (For Candy—Namely, Caramels.) J. N. COLLINS COMPANY, Minneapolis, Minn. Filed March 6, 1922.
- 24,634.—*Title*: "HAPPY DAYS." (For a Beverage.) THE CROWN BREWING CO. INC., Cincinnati, Ohio. Filed April 10, 1922.
- 24,635.—*Title*: "DELICO DIPS." (For Chocolate-Coated Frozen Confections.) DELICO PRODUCTS COMPANY, Sheridan, Wyo. Filed May 25, 1922.
- 24,636.—*Title*: "ADMIRATION." (For Envelopes Containing Hair Nets.) THE B. FRANKEL CO., New York, N. Y. Filed May 27, 1921.
- 24,637.—*Title*: "FENWAY." (For Envelopes Containing Hair Nets.) THE B. FRANKEL CO., New York, N. Y. Filed May 27, 1921.
- 24,638.—*Title*: "YANKEE GIRL." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed May 27, 1921.
- 24,639.—*Title*: "PEGGY." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed May 27, 1921.
- 24,640.—*Title*: "LION BRAND." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed May 27, 1921.
- 24,641.—*Title*: "FIREFLY." (For Envelopes Containing Hair Nets.) THE B. FRANKEL COMPANY, New York, N. Y. Filed June 4, 1921.
- 24,642.—*Title*: "'HONEY-LIKE' COCOANUT SHOWERS." (For Candy and Confections.) FROZEN FRUIT INC., Harrisburg, Pa. Filed June 1, 1922.
- 24,643.—*Title*: "COCOANUT SHOWERS 'HONEY-LIKE.'" (For Candy and Confections.) FROZEN FRUIT, INC., Harrisburg, Pa. Filed June 1, 1922.
- 24,644.—*Title*: "THE IRIS HAIR NET." (For Hair-Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.
- 24,645.—*Title*: "KISMET HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.
- 24,646.—*Title*: "SWANNETTE HAIR NET." (For Hair Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.
- 24,647.—*Title*: "PUNCHER DE LUXE." (For Boxes Containing Cigars.) S. GOLDBERG & COMPANY, Newark, N. J. Filed April 7, 1922.
- 24,648.—*Title*: "SATISFACTION." (For Eggs.) GREEN & COMPANY, Chicago, Ill. Filed May 22, 1922.
- 24,649.—*Title*: "LASTING LUSTRO THE PERFECT POLISH." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) H. R. F. Co., San Francisco, Calif. Filed May 23, 1922.

- 24,650.—*Title:* "O. K. ETO CRISPS." (For Health Wafers. JERN FOOD COMPANY, College View, Nebr. Filed May 26, 1922.
- 24,651.—*Title:* "CHOICE BOX." (For Packages of Confectionery.) ROBERT A. JOHNSTONE COMPANY, Milwaukee, Wis. Filed April 14, 1922.
- 24,652.—*Title:* "MILE-A-MINUTE." (For Carbon Remover and Preventer.) MILE-A-MINUTE. INCORPORATED, Pittsburgh, Pa. Filed March 19, 1921.
- 24,653.—*Title:* "M. M. R'S RED SEAL HAIR NET." (For Hair Nets.) MORRIS, MANN & REILLY, INC., Chicago, Ill. Filed May 22, 1922.
- 24,654.—*Title:* "SELBY'S FLEUR KISS CHEWING GUM." (For Packages Containing Chewing Gum.) NATIONAL PEPSIN GUM CO., San Francisco, Calif. Filed April 24, 1922.
- 24,655.—*Title:* "P S G Co. STOVE GLOSS." (For a Stove Gloss Preparation.) JACOB L. NEKRITZ, Brooklyn, N. Y. Filed March 7, 1922.
- 24,656.—*Title:* "THOROBREAD." (For Bread.) NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Filed January 31, 1922.
- 24,657.—*Title:* "VIT-A-MINE LINE FOODS." (For Vit-A-Mine Line Foods.) T. J. NEWBILL, La Grange, Ill. Filed January 16, 1922.
- 24,658.—*Title:* "RED POPPY." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,659.—*Title:* "YELLOW BIRD." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,660.—*Title:* "NORTHERN CABINET TISSUE." (For a Wrapper for Packages of Toilet Paper.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,661.—*Title:* "GREEN LEAF." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,662.—*Title:* "NORTHERN BEAR." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,663.—*Title:* "BONNIE." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,664.—*Title:* "PURPLE FEATHER." (For a Wrapper for Toilet-Paper Rolls.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,665.—*Title:* "DRYTEX." (For a Wrapper for Folded Paper Towels.) NORTHERN PAPER MILLS, Green Bay, Wis. Filed May 25, 1922.
- 24,666.—*Title:* "INDIAN CORN CANDY." (For Butter Cream Confections—Namely, Indian Corn Candy.) THE NUSS CONFECTIONERY COMPANY, Cincinnati, Ohio. Filed March 4, 1922.
- 24,667.—*Title:* "ASP-RIN-LAX." (For Cold Tablets.) OMEZ PHARMACAL CO., Denver, Colo. Filed February 6, 1922.
- 24,668.—*Title:* "VIRGINIA MOUNTAIN PEACHES MAD RUN BRAND." (For Packages Containing Peaches.) J. A. O'NEILL, Crozet, Va. Filed March 10, 1922.
- 24,669.—*Title:* "THE CHERTOK-BODAK HAIR SAVER." (For a 4-Oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) OSCAR HAIR RESTORING COMPANY, Scranton, Pa. Filed May 22, 1922.
- 24,670.—*Title:* "PARASILK." (For Toilet Paper.) PAPER SPECIALTY COMPANY, Wausau, Wis. Filed January 16, 1922.
- 24,671.—*Title:* "PEN-JEL." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly-Making Material.) PENNSYLVANIA SUGAR COMPANY, Philadelphia, Pa. Filed May 17, 1922.
- 24,672.—*Title:* "PLAY BALL." (For Games.) IRVING PRINCE, New York, N. Y., doing business as Play Ball Manufacturing Company, New York, N. Y. Filed May 29, 1922.
- 24,673.—*Title:* "REALGOOD." (For Hosiery.) THE REALGOOD CORPORATION, Atlanta, Ga. Filed April 10, 1922.
- 24,674.—*Title:* "REALGOOD." (For Hosiery.) THE REALGOOD CORPORATION, Atlanta, Ga. Filed April 19, 1922.
- 24,675.—*Title:* "BROWNIE KRUST." (For Bread.) HENRY J. REGUS, New Orleans, La. Filed June 1, 1922.
- 24,676.—*Title:* "GOLDEN GLOW BUTTER." (For Butter.) RIDDLE-McELWAIN Co., Sabinal, Tex. Filed May 24, 1922.
- 24,677.—*Title:* "HA-LO ANTISEPTIC CYLINDERS ANTISEPTIC, HEALING, DEODORANT, PROPHYLACTIC." (For Medicinal Preparation for Female Diseases.) LOUIS C. BOHLFING, St. Louis, Mo., doing business as the Ap-Pel-Line Medicine Company. Filed May 1, 1922.
- 24,678.—*Title:* "SANO." (For a Rheumatic Remedy and System Tonic.) SANO REMEDY COMPANY, Cleveland, Ohio. Filed March 18, 1922.
- 24,679.—*Title:* "SAVEM." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) SAVEM ECONOMY PRODUCTS Co., East Boston, Mass. Filed August 18, 1921.
- 24,680.—*Title:* "SAVEM." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) SAVEM ECONOMY PRODUCTS Co., East Boston, Mass. Filed August 18, 1921.
- 24,681.—*Title:* "CHOCOLATE PIE." (For Candy.) SCHALL'S INC., Clinton, Iowa. Filed April 22, 1922.
- 24,682.—*Title:* "DR. SCHWIND'S ROSE HEALING SALVE." (For Salve.) THE SCHWIND LABORATORY, Le Mars, Iowa. Filed June 7, 1921.
- 24,683.—*Title:* "EL FANI." (For Boxes Containing Cigars.) SCLAFANI & SONS, New York, N. Y. Filed November 15, 1921.
- 24,684.—*Title:* "STYLA." (For Boxes Containing Hosiery.) FELIX SIMMONS, Worcester, Mass., doing business as Styla Silk Hosiery Co., Worcester, Mass. Filed April 14, 1922.
- 24,685.—*Title:* "SWEETIE." (For Oranges.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed March 23, 1922.
- 24,686.—*Title:* "STACOMB." (For Hair Pomade.) STANDARD LABORATORIES, INC., Los Angeles, Calif. Filed October 20, 1921.
- 24,687.—*Title:* "JANE DREW." (For Candies.) L. R. STEEL COMPANY, INC., Buffalo, N. Y. Filed February 28, 1921.
- 24,688.—*Title:* "SWEET'S LADY CLAIRE CHOCOLATES." (For Chocolates.) SWEET CANDY COMPANY, Salt Lake City, Utah. Filed December 11, 1920.
- 24,689.—*Title:* "WAFER-LAX." (For a Carton Which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) THE WILLIAM H. SWEET COMPANY, Columbus, Ohio. Filed November 22, 1921.
- 24,690.—*Title:* "CYCLONE CLEANER." (For a Cleaning Compound.) THOMAS A. THEARD, Indianapolis, Ind. Filed April 12, 1922.
- 24,691.—*Title:* "VIRDEN'S THRIFT." (For Cooked Corn Beef.) VIRDEN PACKING COMPANY, South San Francisco, Calif. Filed May 22, 1922.
- 24,692.—*Title:* "LADY JANE." (For Hair Nets.) M. WAHL & SON, New York, N. Y. Filed June 15, 1921.
- 24,693.—*Title:* "HUSKY GRAHAM BREAD." (For Bread.) M. ZINSMASTER, Des Moines, Iowa. Filed May 26, 1922.

PRINTS

REGISTERED JULY 4, 1922.

-
- 6,195.—*Title*: "PIANOS! PIANOS!" (For Advertising Purposes for Pianos.) BOSTON PIANO Co., Chicago, Ill. Filed May 6, 1922.
- 6,196.—*Title*: "FACTORY PIANOS." (For Advertising Purposes for Pianos.) BOSTON PIANO Co., Chicago, Ill. Filed May 6, 1922.
- 6,197.—*Title*: "ALTERATION PIANO SALE." (For Advertising Purposes for Pianos.) BOSTON PIANO Co., Chicago, Ill. Filed May 25, 1922.
- 6,198.—*Title*: "JIFFE." (For Advertising Purposes for Nail Polish.) GRACE D. EARL, Chicago, Ill. Filed April 22, 1922.
- 6,199.—*Title*: "THE ESTEY RESIDENCE PIPE ORGAN." (For Advertising Purposes for The Estey Residence Pipe Organ.) ESTEY ORGAN Co., Brattleboro, Vt. Filed May 27, 1922.
- 6,200.—*Title*: "THE NEW IMPROVED SEVEN PASSENGER HAYNES 75 TOURING CAR." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed June 2, 1922.
- 6,201.—*Title*: "MAKE ALL FIGURING AS EASY AS TURNING THE CRANK." (For Advertising Purposes for Monroe Calculating Machines.) MONROE CALCULATING MACHINE Co., New York, N. Y. Filed February 24, 1921.
- 6,202.—*Title*: "BEAUTY BROWS." (For Advertising Purposes for Eyeglasses and Spectacles.) FRANK G. MURPHY, Mason City, Iowa. Filed March 27, 1922.
- 6,203.—*Title*: "ELDORADO BRAND TYPEWRITER RIBBONS NON-FILLING AND DURABLE." (For Advertising Purposes for Eldorado Typewriter Ribbons. THE NATIONAL PAPER & TYPE Co., New York, N. Y. Filed April 12, 1922.
- 6,204.—*Title*: "MACKSI MUM." (For Advertising Purposes for Shirts.) RAUH & MACK SHIRT Co., Cincinnati, Ohio. Filed December 30, 1921.
- 6,205.—*Title*: "POLAR PATTIES." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) WILLIAM W. SAXE, Boston, Mass. Filed April 19, 1922.
- 6,206.—*Title*: "'JIFFY' FOLDING CARD TABLE DE LUXE." (For Advertising Purposes for Folding Card Tables.) STEINFELD BROS., New York, N. Y. Filed June 9, 1921.
- 6,207.—*Title*: "PIANO SALE." (For Advertising Purposes for Pianos.) UNION PIANO Co., Chicago, Ill. Filed May 6, 1922.
- 6,208.—*Title*: "PIANO SALE." (For Advertising Purposes for Pianos.) UNION PIANO Co., Chicago, Ill. Filed May 6, 1922.
-

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

EX PARTE DUNBAR.

No. 1399. Decided February 6, 1922.

PATENTS—ASSIGNEE OF TWO APPLICATIONS IS BOUND BY ELECTION.

Where two applicants each assigned their copending applications to the same assignee by an assignment which left no interest in the applicant, the election of the assignee to take the patent on one application, which contained narrow claims reading on the disclosure in the other application, is binding on him and precludes his right to issuance of a patent on the other application, containing broader claims covering the same features.

Mr. Curtis B. Camp and *Mr. C. C. Bradbury* for Dunbar.

Mr. T. A. Hostetler for the Commissioner of Patents.

VAN ORSDEL, J.:

Appellant Dunbar filed the present application for patent October 9, 1905. One Dyson filed a copending application March 19, 1906, on which a patent was issued December 12, 1916. Both applicants assigned to Kellogg Switchboard and Supply Company, and both applications have been prosecuted through the Patent Office by the same attorneys.

It is unnecessary to consider the mechanism or the line of division between the Dunbar and Dyson claims, or the right of the common assignee to disclaim the invention of the claims in the Dyson patent, since this appeal turns upon a question of law. The Dyson application, which went to patent, contained certain narrow claims which would read upon the earlier application of Dunbar. Dunbar has broad claims covering the same features of the invention, and he is here insisting upon the allowance of his claims.

The tribunals below recognize the dilemma in which Dunbar finds himself, and the Commissioner in his opinion states the grounds upon which relief was refused, as follows:

By taking out the Dyson patent, an election was made on the question of priority between Dyson and Dunbar, and the common assignee is just as much bound by that election as if an interference had been declared and priority decided in favor of Dyson. The reason for the rule holding that interferences will not be declared between co-assignors is that the presentation of the testimony on behalf of each assignor is in control of the common assignee, and that there are, therefore, no parties

having adverse interests. If an assignee is to be allowed, after having made such election and taken out the patent, to repudiate the election and present the claims in another application, monopoly would obviously be extended.

The record is silent as to the nature of the assignment from Dunbar to the Kellogg Company. In this situation we must assume that the assignment was absolute and conveyed all the right, title, interest, and claim in the patent to the assignee. Dunbar has, therefore, no interest left in the invention which he can now assert. The case resolves itself into the right of the assignee to a patent upon the present Dunbar claims. To grant these claims to the assignee, after the assignee, by its own election, had accepted the Dyson patent, would be, as held by the Commissioner, a clear extension of the monopoly. If the assignment from Dunbar to the Kellogg Company was a conditional one whereby Dunbar would be prejudiced by the election of the assignee to accept the Dyson patent, a different question might be presented, but in the state of the record Dunbar has no interest left upon which he can personally claim protection.

The decision of the Commissioner of Patents is affirmed.

In the absence of Mr. Justice Robb, Mr. Justice Hitz of the Supreme Court of the District of Columbia participated in the hearing and disposition of this case.

Court of Appeals of the District of Columbia.

ELDRED *v.* FINK AND YUNCK. YUNCK *v.* ELDRED AND FINK.

Nos. 1474 and 1475. Decided March 6, 1922.

1. PATENTS—SPECIFICATION IN PRIOR PATENT HELD CONSTRUCTIVE REDUCTION TO PRACTICE OF COUNTS IN INTERFERENCE.

Where a specification in a prior patent issued to one of the parties in interference proceedings, describing a composite wire for incandescent electric lamps composed of a core of nickel steel and a copper sheath covered with a platinum coating, and where there was evidence that the wire had been successfully used without the platinum coating in 60 per cent of the lamps so made, and expressly reserved the right to file an application covering such wire, *Held* that this was a sufficient reduction to practice of the counts in an interference covering a similar wire without the platinum coating.

2. SAME—NECESSITY OF FURTHER EXPERIMENTS WHICH CAN BE PERFORMED BY THOSE SKILLED IN THE ART DOES NOT INVALIDATE REDUCTION TO PRACTICE.

A specification in an application for patent, which describes the counts in issue in subsequent interference

proceedings, is not invalidated as a reduction to practice by the fact that further experiments were necessary to make the invention successful, where such experiments could have been conducted by those skilled in the art from the description in the specification.

Mr. A. Parker Smith for YuncK.

Mr. C. J. Sawyer for Eldred.

Mr. Hubert Howson and *Mr. A. G. Davis* for Fink.

ROBB, J.:

These are appeals from a Patent Office decision in interference proceedings involving a composite leading-in wire for incandescent electric lamps. The claims are ten in number, but the first and tenth, here reproduced, will be sufficiently illustrative:

1. A composite low expansion wire comprising a core of nickel steel and an external copper sheath welded thereto, said wire as a whole having less expansion than platinum.
10. The combination, with a gas-tight receptacle having a wall of vitreous material, of a composite leading-in wire sealed therein, said wire consisting of reinforced copper wire, said reinforcement consisting of a layer of low expansion nickel-iron alloy.

The Examiner of Interferences, after a painstaking review of the evidence, awarded priority of invention to Eldred. The Examiners-in-Chief and the Commissioner overruled this decision and awarded priority to Fink.

Eldred contends, and this contention was sustained by the Examiner of Interferences, that application No. 656,987, filed October 26, 1911, upon which patent was issued December 30, 1913, constituted a constructive reduction to practice. If this contention is sound, Eldred is entitled to an award of priority. In that application Eldred was particularly concerned with a composite wire consisting of a nickel-steel core, a layer of copper and an outer covering of platinum, but in his specification he said:

Nickel-steel containing about 38% of nickel answers the purpose very well.

The size of the core is specified and also its coefficient of expansion, as well as the thickness of the copper layer and the platinum covering. In addition to this description of the above composite wire, the specification makes reference to the use of wire without the platinum covering, in these words:

As additional evidence of the importance of having a coefficient of expansion lower than that of glass the fact may be mentioned that the composite copper-nickel-steel core of the present wire has, without any coating platinum, been drawn into lamp wire and has afforded seals. With such a copper-clad ferrous alloy wire, the sealing-in operation is best carried on under non-oxidizing conditions, as for example in an atmosphere of nitrogen or other inert gas. Three lamps out of five have given perfect seals. Here the character of the seal depends, not upon any adhesion of the glass for the copper, as the surface of the latter metal oxidizes considerably in the process of sealing-in but solely upon the strong contraction of the glass upon the wire. A glass lamp having sealed into it a leading-in wire comprising an alloy core of low but non-uniform expansion and an expansion-correcting sheathing of welded-on copper, the wire as a whole having a lower expansion than the glass, is in itself novel, and the right to make such novel article the subject of separate application is expressly reserved. For the present purposes however, a welded-on outer sheathing of platinum is desirable and preferable.

There was evidence that in October of 1910 a few experimental lamps were made according to the disclosure in this specification, and that 60% of them were good lamps. At the time the testimony was taken, wire made according to the specification of this patent was used in making a considerable

number of lamps, almost all of which were perfect. We agree with the Examiner of Interferences that this application describes fully the structure of the wire, the principle involved, and gives the proportions and dimensions for at least one embodiment. As the Commissioner correctly says:

That a certain amount of experimenting may be necessary in a certain class of inventions and that the necessity for such experimentation is no ground for holding a patent invalid is well settled.

This specification was addressed to those skilled in the art, to whom was left the mere mechanical experimentation incident to the commercial exploitation of the invention. In other words, any one skilled in the art, given this specification, would have had no difficulty in producing lamps.

For the reasons given more in detail by the Examiner of Interferences, we reverse the decision and award priority to Eldred.

Reversed, as to No. 1474.

Affirmed, as to No. 1475.

In this case Mr. Justice HOEHLING of the Supreme Court of the District of Columbia sat in the place of Mr. Chief Justice SMYTH.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

845,747, 908,731, W. R. Bonham, Calculating machines, suit filed March 8, 1922, U. S. D. C., W. D. Mich., Doc. 1959, *F. C. Pangborn v. R. W. Hook and The Calculator Corporation*. Decree by stipulation of parties dismissing cause, entered June 13, 1922.

897,757, I. W. Marshall, Sheet-combining machine; 897,758, same, Process for manufacturing indurated fiber, suit filed June 3, 1922, U. S. D. C., Del., Doc. 481, *T. E. Marshall, J. W. Marshall, T. C. Marshall, and National Fibre & Insulation Company v. Diamond State Fibre Company*.

897,758. (See 897,757.)

908,731. (See 845,747.)

934,603, J. F. Gedge, lifting and mixing machines, suit filed May 2, 1922, U. S. D. C., M. D. Pa., Doc. 326, *The Gedge Gray Company v. Sprout, Waldron & Company*. Injunction issued June 6, 1922.

1,028,039, M. B. Lloyd, Processes of manufacturing metal tubes; 1,124,756, 1,124,763, same, Tube-welding machines; 1,124,760, same, Continuous welding mechanism; 1,124,766, same, Tube-welding process; 1,141,068, same, Art of welding; Reis. 13,941 (original Patent 961,394), M. Altman, Apparatus for welding the meeting edges of metallic articles; suit filed June 15, 1922, U. S. D. C., E. D. Mich., Doc. 471, *The Elyria Iron & Steel Company and The Standard Parts Company and Frank A. Scott v. American Metal Products Company*.

1,028,039, M. B. Lloyd, Processes of manufacturing metal tubes; 1,124,756, 1,124,763, same, Tube-welding machines; 1,124,760, same, Continuous welding mechanism; 1,124,766, same, Tube-welding No. 1.]

process; 1,141,068, same, Art of welding; Reis. 13,941 (original Patent 961,394), M. Altman, Apparatus for welding the meeting edges of metallic articles; suit filed June 13, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 736, *The Elyria Iron & Steel Company and The Standard Parts Company and Frank A. Scott v. The American Welding & Manufacturing Company*.

1,082,419, N. E. Gee, Stokers; 1,130,443, 1,195,532, C. F. Street, Mechanical stokers, suit filed December 30, 1920, U. S. D. C., Del., Doc. 410, *Locomotive Stoker Company v. The Elvin Mechanical Stoker Company*. Decree entered May 31, 1922, granting preliminary injunction as to claims 1 and 2 of Patent 1,130,443 and dismissing bill of complaint as to claims 1, 3, 5, 8, 9, and 10 of Patent 1,082,419 and as to Patent 1,195,532.

1,085,474, C. Peterson, Eaves-trough braces, suit filed June 6, 1922, U. S. D. C., Kans. (1st Div.), Doc. 2342, *C. Peterson v. Milwaukee Corrugating Company*.

1,124,756. (See 1,028,039.)
1,124,760. (See 1,028,039.)
1,124,763. (See 1,028,039.)
1,124,766. (See 1,028,039.)
1,130,443. (See 1,082,419.)
1,141,068. (See 1,028,039.)
1,195,532. (See 1,082,419.)
Reis. 13,941. (See 1,028,039.)

Reis. 15,280 (original Patent 1,326,899), H. Abraham, Strip shingles, suit filed June 12, 1922, U. S. D. C., N. D. N. Y., Doc. 365, *The Ruberoid Company v. McHenry-Millhouse Manufacturing Co.*

Adverse Decisions in Interference.

PATENT NO. 1,348,085.

On May 19, 1922, a decision was rendered that Ezra Lyman Cathcart was not the first inventor of the subject matter covered by claim 2 of his Patent No. 1,348,085, subject, "Posting tray for machine bookkeeping," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,374,217.

On June 3, 1922, a decision was rendered that Herman C. Muhlbach was not the first inventor of the subject matter covered by the sole claim of his Patent No. 1,374,217, subject, "Wheel," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,376,371.

On June 2, 1922, a decision was rendered that George H. Yanochowski was not the first inventor of the subject matter covered by claims 4, 5, 6, 12, 13, 18, 19, 20, 22, 24, 26, 27, 28, 29, 32, 33, 34, 38, 39, and 40 of his Patent No. 1,376,371, subject, "Automatic telephone system," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER NO. 2,760.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 16, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately: In class 97, Plows (Division I), abolish subclass—

4. Clevises.

The patents formerly contained in this subclass have been placed for the most part in class 278, Land Vehicles, Animal Draft Appliances, subclasses 96.1, Whiffletrees,

Connections, Link or clevis, Resilient, and 96.2, Whiffletrees, Connections, Link or clevis, Adjustable draft line, and the subclass indented thereunder, hereinafter established.

In class 213, Railway Draft Appliances (Division XLIV), abolish subclass—

67. Miscellaneous.

The patents formerly contained in this subclass have been placed for the most part in class 280, Land Vehicles, in the subclasses indented under subclass 33.2, Wheeled, Articulated, Vehicle train, hereinafter established.

In class 278, Land Vehicles, Animal Draft Appliances (Division X), change the title of subclass 96, Whiffletrees, Connections, Link, to read—

Whiffletrees—
Connections—
96. Link or clevis.

abolish the existing definition, and establish in lieu thereof the following definition:

96. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS. The connecting means is in the form of a link or clevis.

In same class, establish the following subclasses and definitions:

Whiffletrees—
Connections—
Link or clevis—
96.1. Resilient.
96.2. Adjustable draft line—
96.3. Horizontally.
96.1. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS, RESILIENT. Where the link or clevis is supported resiliently or consists of resiliently-connected parts.
96.2. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS, ADJUSTABLE DRAFT LINE. Where the link or clevis is so mounted or constructed as to permit change in the line of draft relative to the drawn vehicle.
96.3. WHIFFLETREES, CONNECTIONS, LINK OR CLEVIS, ADJUSTABLE DRAFT LINE, HORIZONTALLY. Where the adjustment is permitted in a horizontal plane.

The patents contained in these subclasses have been taken for the most part from class 97, Plows, subclass 4, Clevises, hereinbefore abolished.

In class 280, Land Vehicles (Division X), abolish the following subclasses with their definitions:

Wheeled—
Articulated—
Vehicle train—
33.7. Offset couplings—
33.8. Adjustable-tongue connectors.

The patents formerly contained in these subclasses have been placed for the most part in class 280, Land Vehicles, subclasses 33.44, 33.55, and 33.9 to 33.16, indented under subclass 33.2, Wheeled, Articulated, Vehicle train, hereinafter established.

In same class, change the titles of subclasses 33.5, Wheeled, Articulated, Vehicle train, Trailer-steering connectors, and 33.6, Wheeled, Articulated, Vehicle train, Trailer-steering connectors, Adjustable tongue, to read:

Wheeled—
Articulated—
Vehicle train—
Draft devices—
Trailer steering—
33.5. Adjustable tongue,
33.6. change the definition of subclass 33.5 by canceling the first word, "Coupling" and substituting therefor the word *Draft*, and change the definition of subclass 33.6 by canceling the note at the end thereof and substituting *Search this class, subclass 33.11*.

In same class, establish the following subclasses and definitions:

Wheeled—
Articulated—
Vehicle train—
Draft devices—
Trailer steering—
33.44. Stub-axle type,
33.55. Resilient,
33.9. Shiftable—
33.10. Pivoted—
33.11. To tractor,
33.12. Pusher type,
33.13. Tow poles and ropes,
33.14. Coupling—
33.15. Overload release.
33.16.

33.44. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES. Patents relating to the means for transferring movement from a drawing to a drawn vehicle either by push or pull through such draft devices.

33.55. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, TRAILER-STEERING, STUB-AXLE TYPE. Where the drawn vehicle is provided with the stub-axle type of guiding wheel.

33.9. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, RESILIENT. Where the draft device is resiliently mounted on the vehicle to cushion shocks incident to its use.

33.10. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, SHIFTABLE. Where the draft device may be shifted laterally and held in such shifted position to permit changes in the relative line of draft of the drawing and drawn vehicle.

Search this class, subclass 33.6.

33.11. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, SHIFTABLE, PIVOTED. Where the draft device may be shifted laterally about a pivot on the frame of the vehicle.

33.12. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, SHIFTABLE, PIVOTED, TO TRACTOR. Where the pivot is on a tractor (drawing vehicle.)

33.13. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, PUSHER TYPE. Draft devices specially adapted to push a vehicle or vehicles in train formation.

33.14. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, TOW POLES AND ROPES. Means of the character indicated adapted to connect conventional parts of vehicles, usually used to tow a disabled motor vehicle.

Note.—Where a steering function is also included, search this class, subclass 33.5, and the subclasses indented thereunder.

33.15. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, COUPLING. The coupling elements of draft devices.

33.16. WHEELED, ARTICULATED, VEHICLE TRAIN, DRAFT DEVICES, COUPLING, OVERLOAD RELEASE. Where such coupling operates under overload to automatically release the coupling connection.

Search Class—

278—LAND VEHICLES, ANIMAL DRAFT APPLIANCES, subclass 22, Horse-detachers, Automatic.

The patents contained in these subclasses have been taken for the most part from class 213, Railway Draft Appliances, subclass 67, Miscellaneous, hereinbefore abolished, and class 280, Land Vehicles, subclass 33.7, Wheeled, Articulated, Vehicle train, Offset couplings, and the subclass indented thereunder, hereinbefore abolished.

In same class (280), in subclass 33, Wheeled, Articulated, cancel the existing definition and substitute therefor the following:

33. WHEELED, ARTICULATED. Jointed vehicles or trains of vehicles connected together to permit a single source of draft to move such train as a unit.

Note.—Patents showing the drawn vehicle as an agricultural or earth-working implement, when there is involved no functional manipulation of the implement and no specific structure thereof other than that which directly cooperates to effect a joining of the implement to the drawing vehicle, will be found in this class; otherwise in the art in which the particular implement is classified.

Note.—Compare this class, subclass 98, and the subclasses indented thereunder.

Search Class—

180—MOTOR VEHICLES, subclass 14, Vehicle trains.

In same class (280), in subclass 33.2, Wheeled, Articulated, Vehicle train, cancel the existing definition and substitute therefor the following:

33.2. WHEELED, ARTICULATED, VEHICLE TRAIN. Trains of two or more vehicles adapted to travel other than on tracks and provided with draft connections.

WM. A. KINNAN,
Acting Commissioner.

Changes in Classification.

(ORDER NO. 2,761.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,

Washington, D. C., June 17, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 118, Textiles, Spinning (Division XXI), establish the following subclass and definition:

Doffing or donning—

Mechanical—

18.5. Traveling carriage.

18.5. DOFFING OR DONNING, MECHANICAL, TRAVELING CARRIAGE. The doffing or donning mechanism is adapted to travel along the frame and manipulate the bobbins in succession.

The patents contained in this subclass have been taken from class 214, Material or Article Handling, subclass 4, Bobbin doffing or donning, hereinafter abolished.

In the same class (118), subclass 16, Doffing or donning, abolish the note following the definition.

In class 214, Material or Article Handling (Division IV), abolish the following subclass with its definition:

4. Bobbin doffing or donning.

The patents formerly contained in this subclass have been placed in class 118, Textiles, Spinning, subclass 18.5, Doffing or donning, Mechanical, Traveling carriage, hereinbefore established.

WM. A. KINNAN,
Acting Commissioner.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 300—No. 2.

TUESDAY, JULY 11, 1922.

Price—\$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, \$5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JULY 11, 1922.....	205
INSTRUCTIONS RESPECTING THE CERTIFICATION OF AUTHORITY OF EXECUTORS AND ADMINISTRATORS, AND THE EXECUTION OF APPLICATIONS FOR UNITED STATES PATENTS BY FOREIGN RESIDENTS.....	205
THE OFFICIAL GAZETTE.....	205
APPLICATIONS UNDER EXAMINATION.....	206
PATENTS GRANTED.....	207
REISSUES.....	358
DESIGNS.....	360
TRADE-MARKS PUBLISHED (218 APPLICATIONS).....	367
TRADE-MARK REGISTRATIONS GRANTED.....	397
TRADE-MARK REGISTRATIONS RENEWED.....	407
LABELS.....	408
PRINTS.....	408
DECISIONS OF THE U. S. COURTS.....	
Stein v. Dosch.....	409
ADJUDICATED PATENTS.....	410
PATENT SUITS.....	410
INTERFERENCE NOTICES.....	411
DISCLAIMERS.....	412

Issue of July 11, 1922.

Patents.....	742—No. 1,422,067 to No. 1,422,808, inclusive.
Designs.....	34—No. 61,186 to No. 61,219, inclusive.
Trade-Marks.....	223—No. 156,605 to No. 156,827, inclusive.
Labels.....	17—No. 24,694 to No. 24,710, inclusive.
Prints.....	1—No. 6,209.
Reissues.....	8—No. 15,403 to No. 15,410, inclusive.
T. M. Renewals.....	5
Total.....	1030

Instructions Respecting the Certification of Authority of Executors and Administrators, and the Execution of Applications for United States Patents by Foreign Residents.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The following instructions to the diplomatic and consular officers of the United States respecting the certification of the authority of executors and administrators, and the execution of applications for United States patents by foreign residents have been issued by the Department of State.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF STATE,
Washington, June 24, 1922.

CERTIFICATE REQUIRED OF EXECUTOR OR ADMINISTRATOR IN CONNECTION WITH THE GRANTING OF PATENT FOR INVENTION OF DECEDENT.

To the American Diplomatic and Consular Officers.

GENTLEMEN: In a letter to the Department dated May 24, 1922, the Assistant Secretary of the Interior invites attention to section 4896 of the Revised Statutes, as amended by the act of March 3, 1903 (Chap. 1019, 23 Stats. L., 1226), which provides that, when any person making application for a patent dies before it has been

granted, the executor or administrator may carry on the proceedings, and that "the authority of such foreign executor or administrator shall be proved by a certificate of a diplomatic or consular officer of the United States." It is essential that this certificate be recorded in the United States Patent Office and its form, the Commissioner of Patents suggests, should be substantially as follows, it being contemplated that the papers which satisfy the diplomatic or consular officer of the appointment of the administrator shall not be attached to his certificate and need not be transmitted to the Patent Office:

I, _____, Consul of the United States of America at _____, duly commissioned and qualified, do hereby certify that there have been exhibited to me papers issued by _____, the authorized authorities in this jurisdiction which show that _____ is the person authorized to act as executor or administrator of the estate of _____, deceased, late of _____.

In testimony whereof, I herewith set my hand and seal this _____ day of _____, 19____.

[SEAL.]
U. S. Consul.

The parties interested should make application for this certificate directly to the diplomatic or consular officers, who are authorized to perform the service, consular officers charging the usual fee of \$2.00 as prescribed by item No. 38 of the Tariff of United States Consular Fees.

In the above connection your attention is again invited to the requirement (see circular instructions May 11, 1897; and April 11 and August 11, 1899; and General Instruction No. 730) that when an oath accompanying an application for United States Letters Patent is executed before you "all the application papers must be attached together and a ribbon passed one or more times through all the sheets of the application, and the ends of such ribbon brought together under the seal before the latter is affixed and impressed or each sheet must be impressed with the official seal." Because of the failure properly to ribbon papers presented through consular officers the Patent Office frequently finds it necessary to refuse to accept applications for patent offered for filing.

I am, gentlemen, your obedient servant,

For the Secretary of State:

ALVEY A. ADEE.

The Official Gazette.

THE OFFICIAL GAZETTE is published every Tuesday simultaneously with the weekly issue of patents. From January 1, 1872, (the commencement of its publication,) to June 30, 1883, it was published and bound in semi-annual volumes; from July 1, 1883, to December 31, 1902, in quarterly volumes; from January 1, 1903, to December 31, 1908, in bimonthly volumes; since January 1, 1909, in monthly volumes. Terms: Annual subscriptions, \$5; monthly, 50 cents. For postage upon foreign subscriptions, except those from Canada and Mexico, \$5 or more, as required. Moneys received from foreign subscribers in excess of the subscription price of \$5 will be deposited to the credit of the subscriber and applied to postage upon the subscription as incurred. Single copies, 10 cents; if mailed to foreign countries, excepting Canada and Mexico, 10 cents additional for postage. Payment in advance required. No club rates. No discount to newsdealers. No sample copies. All subscriptions must commence with the beginning of a volume. None taken for less than an entire volume. All orders should be addressed to "The Superintendent of Documents, Government Printing Office, Washington, D. C."

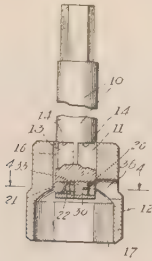
Condition of Applications Under Examination at Close of Business July 1, 1922.

Room No.	(Total number of applications waiting action, excluding Trade-Mark division, 67,367; Trade-Mark division, 8,549. Oldest new case, Mar. 31; oldest amended, Apr. 8, 1921. The dates given are 1921 except where * indicates 1922.)	Divisions, Examiners, and subjects of inventions.		Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	New.	Amended.	
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Nov. 30	Dec. 14			913
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants, and Flowers.	July 12	July 5			1,960
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Aug. 19			919
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 22	*Apr. 6			1,469
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Sept. 30			1,115
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 26	*Feb. 11			1,262
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Sept. 21	Nov. 7			2,370
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 17	*May 3			872
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	June 2	*Apr. 19			1,117
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 23	*Mar. 22			1,137
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 6	*Feb. 23			663
322	12. PIERCE, P. P., Machine Elements.	Dec. 1	*Feb. 17			1,295
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 20	*Feb. 25			1,694
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bonding; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16			1,150
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 18	Aug. 24			2,021
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	July 6	July 14			2,337
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 20	*Jan. 3			1,351
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	May 20			2,428
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	June 2	Oct. 17			1,316
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Jan. 23	*Jan. 9			1,573
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Tinting; Textiles, Weaving; Winding and Reeling.	Aug. 30	Dec. 28			909
249	22. CORWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive-Charge Making.	Oct. 21	*Mar. 9			466
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	May 13	Nov. 3			815
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines.	Sept. 9	*Feb. 7			1,210
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 5	*Apr. 5			432
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime-Mover Dynamo Plants.	Sept. 12	Dec. 31			1,046
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 10	Sept. 12			1,994
225	28. BENSON, A. R., Internal-Combustion Engines.	Oct. 7	Sept. 1			1,684
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Oct. 5	*Apr. 28			538
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-writing Machines.	*Jan. 3	*Apr. 1			1,457
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 21	Sept. 6			2,142
273	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Sept. 1	*Mar. 9			989
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 14	*Jan. 21			914
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 17	*Mar. 16			559
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc., Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 3	*Apr. 20			813
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 1	*Jan. 13			1,758
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Aug. 10	Aug. 8			1,883
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 22	Oct. 20			1,773
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 16	June 2			2,281
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 9	Oct. 6			2,887
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	*Feb. 9	*Jan. 26			731
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	July 25	June 27			1,974
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 1	Oct. 4			1,865
253	44. SHAFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 8	*Apr. 1			504
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Nov. 16	*Feb. 3			1,272
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 12	Dec. 5			1,313
261	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Aug. 26	*Jan. 25			1,270
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications.	Mar. 31	Apr. 8			2,836
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.					
	Trade-Marks.	Sept. 12	*Jan. 30			5,832
	Designs.	Nov. 5	Dec. 30			2,577
	Labels and Prints.	*June 10	*June 23			140

PATENTS

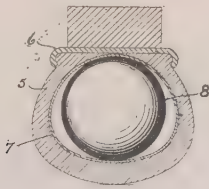
GRANTED JULY 11, 1922.

1,422,067. SOCKET WRENCH. WALTER A. ABEGG, Los Angeles, Calif. Filed Dec. 15, 1920. Serial No. 430,877. 7 Claims. (Cl. 81—121.)



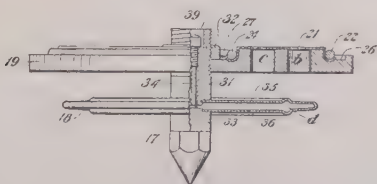
1. In combination, a socket having a recess, a shank adapted to extend into the recess, and means adapted to be set to adjustably yieldingly hold the shank in the recess or to positively hold the shank in the recess, said means comprising a pressure member, a spring adapted to press the pressure member when the shank is yieldingly held in the recess, a screw adapted to adjust the pressure of the spring, and a part arranged to positively connect the pressure member and screw when the shank is positively held in the recess.

1,422,068. PRESSURE-SIGNALING DEVICE FOR TIRES. WILLIAM F. ARNDT, Watertown, Wis. Filed June 17, 1921. Serial No. 478,437. 2 Claims. (Cl. 116—34.)



2. The combination with the inner tube of a pneumatic tire, of an elongated solid ball enclosed thereby, the elongated elements of the surface of the ball having a greater radius of curvature than the inner circumference of the tube, and the shortest diameter of the ball being approximately three-fourths of the normal diameter of the tube.

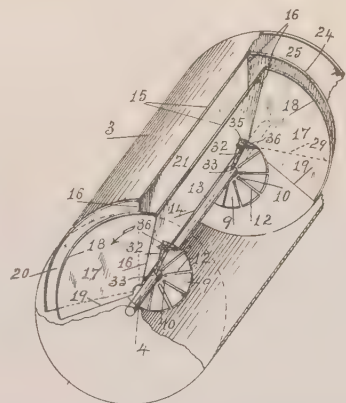
1,422,069. STEAM TRAP. CHARLES H. ATKINS, Palmer, Mass. Filed May 13, 1920. Serial No. 381,106. 5 Claims. (Cl. 236—58.)



5. In a steam trap, the combination, of an enclosing casing, a rigid member secured to the casing, the casing hav-

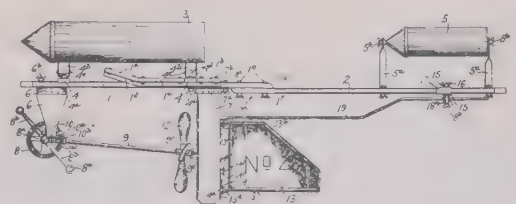
ing inlet and outlet ports arranged in alignment with each other, a diaphragm having a volatile liquid therein and secured to the rigid member, a valve secured to the diaphragm, the rigid member being located under the inlet port and having openings to permit the incoming steam to directly surround the diaphragm to cause the expansion of the liquid in the diaphragm to close the valve, the construction being such that the diaphragm will be cooled simultaneously with the interior of the casing to open the valve and will immediately expand to close the valve by the incoming steam, passing through the openings in the rigid member and directly into contact with the diaphragm.

1,422,070. AIR COMPRESSOR. HANS C. AARUP, Springfield, Ill. Filed Sept. 25, 1919. Serial No. 326,240. 1 Claim. (Cl. 230—22.)



In an air compressor, the combination of a rotative shaft; spiders having radial slits and perforated ears; pins extending through the perforations in the ears of the spiders and through the shaft and connecting the spiders with the shaft in such relation thereto that the radial slits of the respective spiders will be uniformly out of line; blades supported in the radial slits of the spiders and separated by narrow spaces between the inner longitudinal edges of the blades; wings united to the respective blades; and a cylindrical shell united to the blades and the wings.

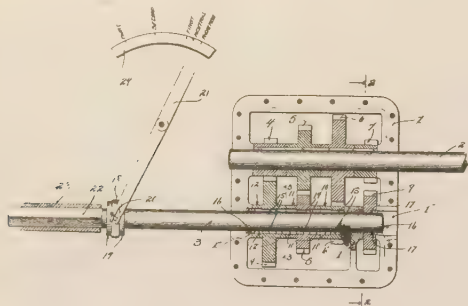
1,422,071. SWIMMING DEVICE. GEORGE GAIL ALLEN-BAUGH, Mansfield, Ohio. Filed Aug. 31, 1921. Serial No. 497,096. 9 Claims. (Cl. 9—18.)



2. In a swimming device, a buoyant collapsible frame provided with subjacent propeller and rudder mechanism

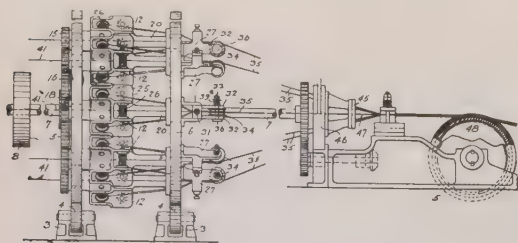
beneath its median portion, and hand operated gearing at the front portion of said frame for operating said propeller and a foot operated lever for controlling said rudder mechanism.

1,422,072. VARIABLE-SPEED GEAR. PETER ALVIN AMUNDSON, Oconomowoc, Wis., assignor of one-half to Thomas Andrew Amundson, Oconomowoc, Wis. Filed Feb. 1, 1921. Serial No. 441,566. 1 Claim. (Cl. 74—59.)



A variable speed gear comprising a driven shaft, said driven shaft having a transverse recess and a central, longitudinal recess, a plurality of gears on the drive shaft, a longitudinal, continuous key for said gears rigid with said shaft, a plurality of gears on the driven shaft provided with circular recesses and longitudinal slots, a key on said driven shaft reciprocable in said transverse recess, a plunger rigid with said key mounted in said longitudinal recess, and a spring urging said key rearwardly in said transverse recess, said key extending from said driven shaft so as to engage with the longitudinal slot of each gear selectively, a reverse gear on said driven shaft provided with a slot, a key on said driven shaft for engaging in said slot, a stud, a gear wheel on said stud meshing with said reverse gear and one of said gears on said driven shaft.

1,422,073. WIRE-ROPE MACHINE. ALBIN E. ANDERSON, Oakmont, Pa., assignor of two-thirds to Eyvind M. Verner and James W. Macfarlane, both of Pittsburgh, Pa. Filed Dec. 2, 1920. Serial No. 427,855. 4 Claims. (Cl. 28—21.)

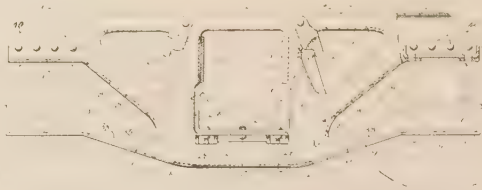


1. In a machine for making wire cable, the combination of a rotatable flier frame and a plurality of individually rotatable bobbin frames carried by the said flier frame, each of the said bobbin frames comprising means for carrying a plurality of rotatable bobbins in two parallel sets the axis of the bobbins in each set being arranged on the sides of a polygon around the axis of rotation of the bobbin frame, the bobbins in one set being staggered with respect to the bobbins in the other set.

1,422,074. TRUCK SIDE FRAME. GUSTAF ARVID ANDERSON, Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 8, 1921. Serial No. 520,849. 64 Claims. (Cl. 105—205.)

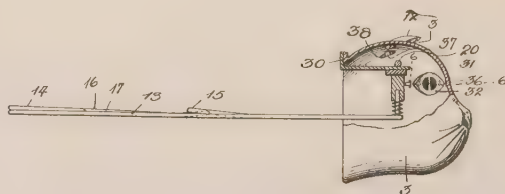
1. A car truck side frame involving a sheet metal outer wall and a sheet metal inner wall integrally connected

thereto in spaced relation therewith, each of said walls having a plurality of truck column portions, a plurality of top arch bar portions, a plurality of bottom arch bar portions and a plurality of pedestal tie bar portions.



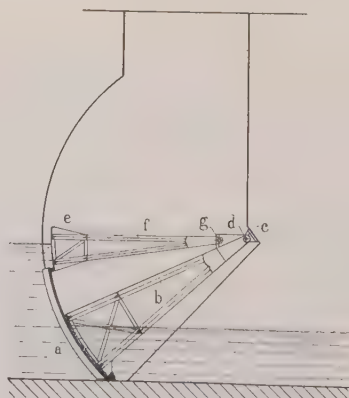
29. A blank for a side frame member of a car truck, said blank being of sheet metal and having an axis of symmetry dividing said blank into two portions each of which has a bolster opening, top arch bar portions, pedestal tie bar portions and bottom arch bar portions.

1,422,075. SPARKING TOY. LOUIS V. ARONSON, Newark, N. J. Filed May 27, 1921. Serial No. 473,135. 3 Claims. (Cl. 46—40.)



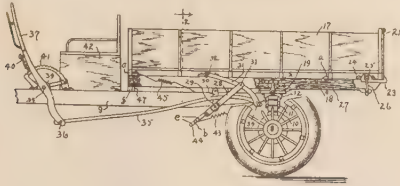
1. A toy comprising the semblance of a portion of a living being having elements thereof simulating eyes adapted to permit light to pass therethrough, a pyrophoric element mounted within said portion, means to cause friction of said pyrophoric element to produce sparks whereby the light passing elements shall be illuminated.

1,422,076. SEGMENT GATE. THEODOR BECHER, Gustavsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg, A. G., Nuernberg, Bavaria, Germany, a Corporation of Germany. Filed Apr. 11, 1922. Serial No. 551,740. 1 Claim. (Cl. 61—25.)



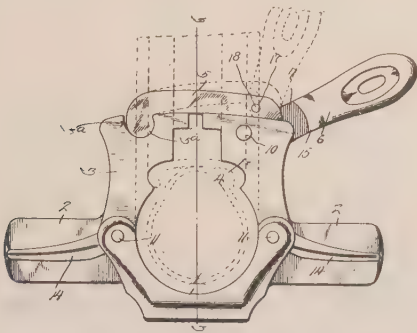
A segment gate consisting of two parts being arranged one above the other in such a manner that the upper segment leaf is journaled to swing on a special pivot arranged on the supporting arm of the lower segment leaf.

- 1,422,077. DUMPING MECHANISM FOR TRUCKS. JOHN A. BEEBE, Omaha, Nebr., assignor of one-fourth to Percy A. Greaves, Omaha, Nebr. Filed Jan. 24, 1921, Serial No. 439,458. Renewed Dec. 12, 1921. Serial No. 521,925. 6 Claims. (Cl. 298—19.)



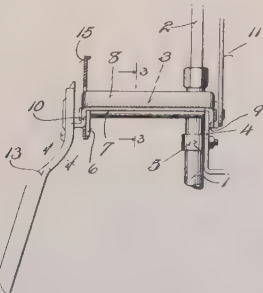
1. In dumping mechanism, the combination with the frame of a vehicle having a box pivotally mounted thereon, of a rock-lever pivotally connected with the frame, a hoisting-bar pivotally mounted between its ends upon the rock-lever and having its upper end pivotally connected with the box, and a longitudinally movable pull-and-push bar pivotally connected with the lower end of the hoisting-bar.

- 1,422,078. AUTOMOBILE SAND AND MUD DOG FOR ATTACHING TO VEHICLE WHEELS. DEMARKUS S. BLACKWELL, Sand Springs, Okla. Filed June 24, 1921. Serial No. 480,252. 3 Claims. (Cl. 152—14.)



1. A device for attaching over a wheel comprising a base piece for gripping purposes carrying pivotally attached thereto, two side pieces forming jaws, all of a shape to fit snugly over a tire, rim, and felly of said wheel, a handle pivotally attached to one side piece, a clamping member carried by said handle, capable of being locked to the opposite side piece, and means for connecting said pieces, as and for the purpose described.

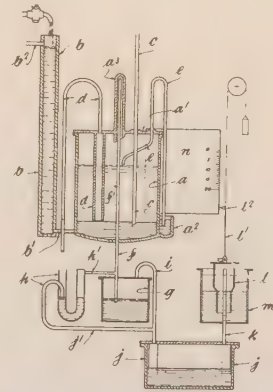
- 1,422,079. BURNER-LIFTING MEANS. JOHN S. BRENNAN, Milwaukee, Wis. Filed Aug. 30, 1920. Serial No. 407,032. 2 Claims. (Cl. 158—42.)



1. In a burner structure, a supply pipe, means for moving a burner head including a bracket arm extended from and

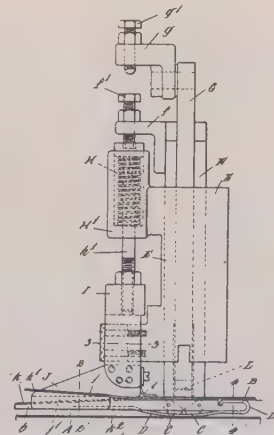
secured to the supply pipe, the opposite end portions of the arm being laterally turned, a brace rod connecting the laterally turned portions, an operating strip having its opposite ends bent laterally and pivoted on the end portions of said brace rod, one end of the strip forming a crank for a burner head connecting member, the other end providing a handle attaching portion, and a handle fixed to said attaching portion, the opposite edges of said strip being adapted to engage the arm to limit rotation of said handle.

- 1,422,080. APPARATUS FOR AUTOMATIC AND CONTINUOUS ANALYSIS AND RECORDING OF GASES. WALTER DOUGLAS RUSSELL BROWN and WILLIAM THOMAS PICKSTON, Bolton, England. Filed Dec. 15, 1919. Serial No. 344,989. 3 Claims. (Cl. 23—3.)



3. Apparatus for the continuous and automatic analysis of flue and other gases by the absorption process and the continuous and automatic recording of such analysis, comprising, in combination, an initial gas measuring chamber, a residual gas measuring chamber and means whereby the withdrawal of the sealing liquid from the initial gas measuring chamber by a vacuum serves to unseal the exit of the residual gas measuring chamber, as set forth.

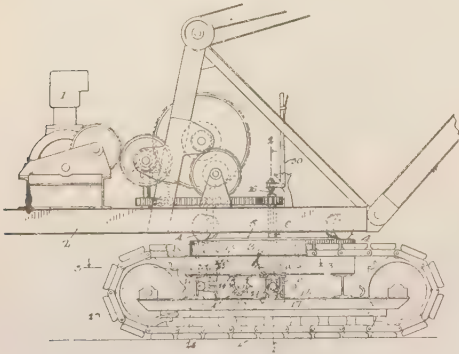
- 1,422,081. WIRE-STITCHING MACHINE. GEORGE THOMAS BUCKHAM and JOHN IRVING NASMITH, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Nov. 3, 1921. Serial No. 512,629. 6 Claims. (Cl. 1—11.)



4. A wire stitching mechanism for folding boxes comprising a work support, a movable anvil located above said

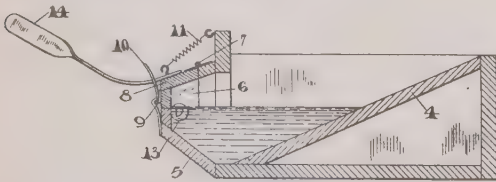
work support and within which clinching dogs are pivotally mounted, the upper face of said anvil being adapted to receive the overlapping edges of the boxes which are to be stitched together, the lower surface of the box being positioned beneath said anvil and resting upon said work support, a blade spring being provided beneath the clinching dogs so as to protect the lower surface of the box during the clinching operation.

1,422,082. CONTROL MEANS FOR LOCOMOTIVE CRANES. PAUL BURKE, Green Bay, Wis., assignor, by mesne assignments, to Northwest Engineering Company, a Corporation of Wisconsin. Filed Oct. 2, 1920. Serial No. 414,217. 8 Claims. (Cl. 180—9.2.)



1. The combination, with traction elements and a base wholly supported thereby, of a rotating base mounted on said base, a prime mover on said rotating base, a power transmission shaft located in the axis of rotation of said rotating base and driven by said prime mover, transmission mechanism between said shaft and traction elements to positively drive said elements at the same or differential speeds whereby said machine may be positively driven and turned entirely under its own force, and control means for said driving means coaxial with the axis of rotation of said rotating base and operable therefrom irrespective of its position or movement.

1,422,083. APPARATUS FOR SOLUTIONING TIRE BEADS. THOMAS A. BURNS, Toronto, Ontario, Canada, assignor to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 426,997. 3 Claims. (Cl. 91—32.)

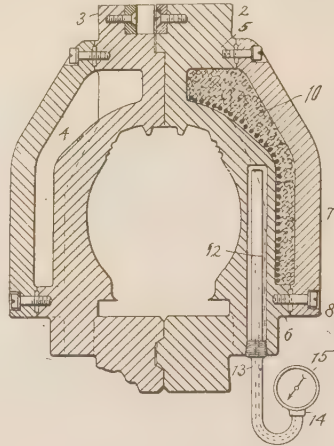


1. Apparatus for solutioning tire beads comprising a solution tank having part of a side wall movable to and from its normal position; and a divided apertured die plate partly carried by the side wall and partly by the movable part.

1,422,084. MOLD ADAPTED FOR USE IN VULCANIZING RUBBER ARTICLES. WARREN F. CLARK, Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa., a Corporation of Delaware. Filed Jan. 17, 1920. Serial No. 352,012. 13 Claims. (Cl. 18—31.)

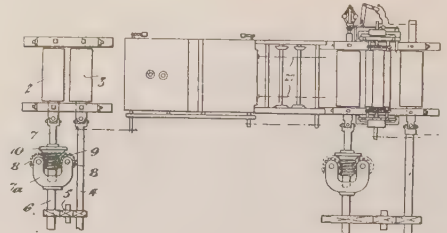
1. The combination with a mold for use in vulcanizing rubber articles, said mold having a wall of approximately

uniform thickness, one surface of which is adapted to cooperate with the article to be molded, an electric heating



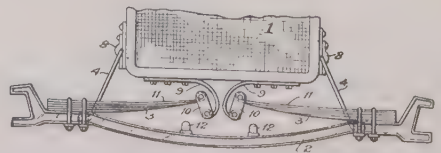
coil cooperating with the other surface of the wall and substantially coextensive with the first mentioned surface of the wall.

1,422,085. APPARATUS USED IN THE MANUFACTURE OF SHEET-METAL PLATES. DAVID DAVIES, Llanelly, and DAVID JONES, Tiroed, Wales. Filed Apr. 18, 1918. Serial No. 229,392. 2 Claims. (Cl. 29—17.)



2. In metal stretching apparatus of the character described, a pair of primary rollers, a pair of secondary rollers, means to positively drive one roller of each pair, the said positively driven primary roller at a lower rate of speed than the said positively driven secondary roller, such driving means comprising a shaft directly connected to the said positively driven secondary roller, a second shaft geared to said first named shaft for rotation therewith in the same direction, a bracket carried by said second named shaft, worm wheels arranged for revolution and mounted in said bracket, a third shaft in line with and independent of said second shaft, and directly connected to the said positively driven primary roller, a worm on said third named shaft and engaged by the worm wheel, and a clutch element also on said third named shaft and arranged to cooperate with said worm.

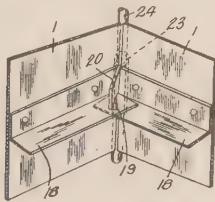
1,422,086. MEANS FOR CONNECTING AUTOMOBILE BODIES TO THE CHASSIS. ARTHUR C. DESLER, Radford, Va. Filed Apr. 12, 1921. Serial No. 460,647. 7 Claims. (Cl. 267—46.)



7. Means of the character described comprising two spring plate members with the outer end of each member

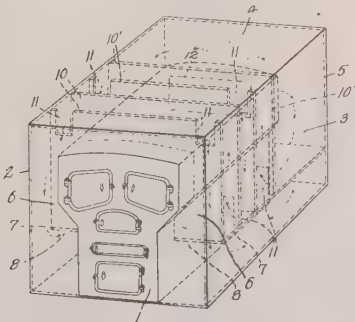
secured to the lower face of the body, two springs secured to the axle, each of said springs having a top plate terminating near the center of the body, means for connecting the inner end of each top plate and inner end of each spring plate together, and a plurality of radius rods, each being secured at one end to a clip fixedly secured to the axle with its other end secured to the body by a ball and socket joint.

1,422,087. HEATING APPARATUS. ARISTIDE HARRY DES PAROIS, Mon real, Quebec, Canada. Filed Apr. 1, 1921. Serial No. 457,622. 3 Claims. (Cl. 126--58.)



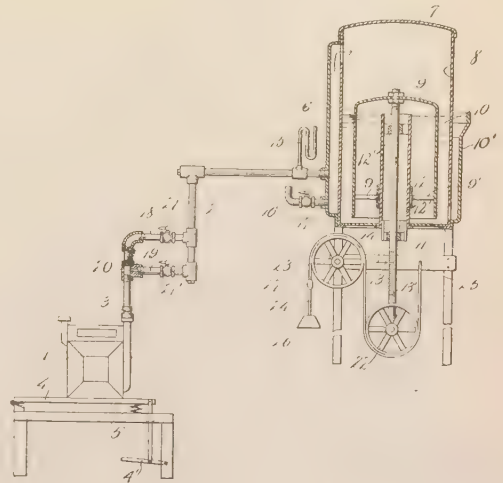
1. The combination with a heating furnace having a smoke outlet at its upper end, of an exterior casing enclosing said furnace and suitably spaced from the walls thereof; vertical partitions within the casing defining a space or chamber in front of the doors of the furnace to provide access to said doors; a plurality of spaced, horizontal partitions secured in said casing in the space between the walls thereof and the furnace, and dividing said space into a series of superposed sections, each section having a hole in zig-zag relation to the hole in the adjacent partition; and a pipe leading to the chimney communicating with the bottom section, substantially as described.

1,422,088. HEATING APPARATUS. ARISTIDE HARRY DES PAROIS, Montreal, Quebec, Canada. Filed Apr. 21, 1921. Serial No. 463,240. 4 Claims. (Cl. 126--60.)



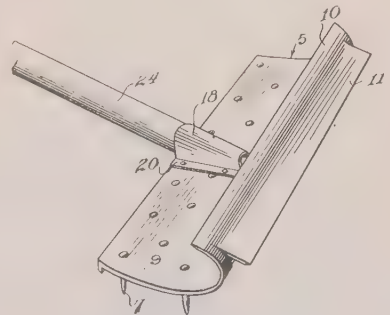
1. The combination with a heating furnace having a smoke outlet at one end, of an external casing enclosing the furnace and spaced therefrom; a horizontal partition disposed intermediate the top and bottom of the space formed between the walls of the casing and furnace and dividing said space into upper and lower sections, said partition terminating short of the front wall of the casing to provide an opening, and the lower section having a smoke outlet communicating with it; and a plurality of spaced, parallel partitions in the upper section connected at opposite ends with the top wall of the casing and the horizontal partition, each of the parallel partitions having an opening.

1,422,089. MEANS FOR AND METHOD OF PROVING GAS METERS. RICHARD L. DEZENDORF, Richmond Hill, N. Y. Filed Mar. 22, 1919. Serial No. 284,455. 7 Claims. (Cl. 73--1.)



1. In a meter tester, the combination of a connection adapted to be applied to the outlet of a meter to be tested, means for producing and automatically maintaining a partial vacuum for drawing air through said connection, and means for determining the amount of air drawn through such connection during a given operation of said meter.

1,422,090. GARDEN TOOL. DAVID S. DICKIE, Winifred, Mont. Filed Aug. 19, 1920. Serial No. 404,551. 4 Claims. (Cl. 55--39.)

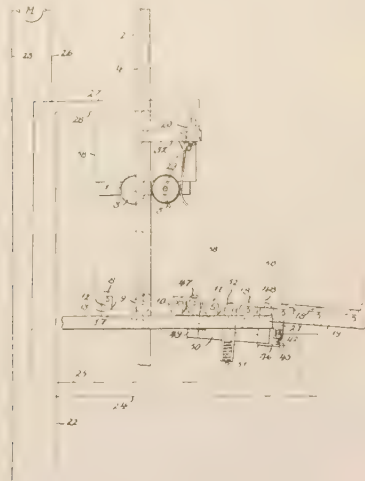


1. A garden tool comprising a transversely curved elongated plate having one longitudinal edge portion extended rearwardly in the direction of the major portion of the plate thereby forming an overhanging blade, a second blade projecting forwardly from the overhanging blade, and a handle connected to said plate at the other longitudinal edge of the same.

1,422,091. DETECTOR FOR ELEVATORS AND CONVEYERS. WILLIAM T. DONALDSON, St. Paul, Minn., assignor to Standard Conveyor Company, a Corporation of Minnesota. Filed Feb. 7, 1921. Serial No. 442,917. 6 Claims. (Cl. 198--232.)

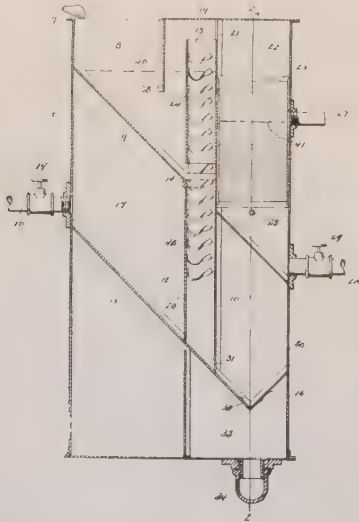
1. The combination with an electrical elevator having a series of trays and a conveyor arranged to receive packages therefrom, of switches connected in the power line

of the motor of said elevator, a detector mounted near the junction of said elevator and conveyer and arranged



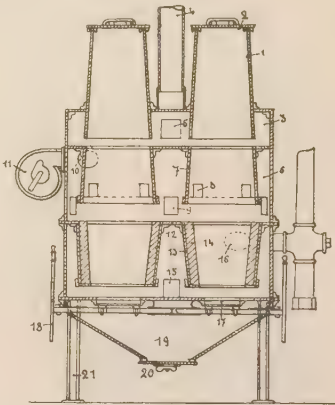
to actuate one of said switches and actuating means projecting into the path of said trays for operating another of said switches.

1,422,092. SEPARATING AND CLASSIFYING APPARATUS. LEWIS H. FALLEY, Kansas City, Mo. Filed Nov. 1, 1919. Serial No. 335,197. 5 Claims. (Cl. 83—82.)



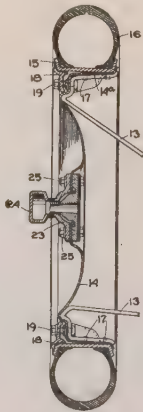
1. An apparatus of the character described, comprising a settling tank, a partition dividing the tank into a settling compartment, and a receiving compartment communicating with said settling compartment intermediate the ends of the latter; fluid supply means communicating with said settling compartment and maintaining an upward flow therein, and a plurality of deflecting elements located in vertically spaced relation in said settling compartment, said elements extending in a downwardly curved direction, transversely across said settling compartment, and adapted to produce cross-currents therein, while also tending to centralize the downward movement of the material settling within said settling compartment.

1,422,093. GAS PRODUCER. LOUIS FORNAS, Paris, France. Filed Feb. 1, 1919. Serial No. 274,465. 2 Claims. (Cl. 48—73.)



2. In a gas producer, the combination of a horizontal air chamber having a drier therein, means for supplying fuel to the drier to pass therethrough, means for supplying air to said chamber at a point above the zone of combustion, suitable for carrying off moisture from the combustible and for supporting combustion, a horizontal gas chamber beneath the air chamber and provided with a discharge opening through which the gases produced are exhausted, and a furnace in the gas chamber communicating at its top with the air chamber at a point immediately below the drier, said furnace being supplied with air from said chamber and fuel from said drier.

1,422,094. SPARE-TIRE CARRIER. GEORGE H. FORTSYTH, Chicago, Ill. Filed July 12, 1920. Serial No. 395,466. 12 Claims. (Cl. 224—29.)

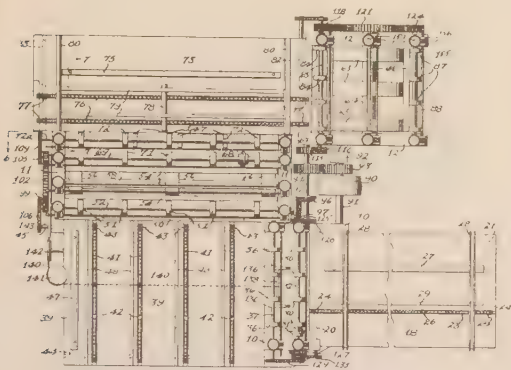


1. A carrier for spare tires comprising a dummy wheel body, simulating in appearance a service wheel of the car on which used but of non-service construction, a member adapted to receive and support a spare tire, and a releasable tire-retaining member, the dummy wheel body permanently assembled with a suitable support.

1,422,095. SCORING AND TRIMMING MACHINE. CHARLES C. GAMM, St. Paul, Minn., assignor to Waldorf Paper Products Company, a Corporation of Minnesota. Filed Oct. 15, 1920. Serial No. 417,119. 6 Claims. (Cl. 93—58.)

1. In a scoring and trimming machine, a frame, a feed table mounted at one end of said frame, a series of par-

allel shafts journaled in said frame, gripping rolls, trimming knives and rotary scoring bars mounted on said shafts, a second series of parallel shafts journaled in said frame at right angles to said first series, rotary scoring bars and gripping rolls mounted on said second series of

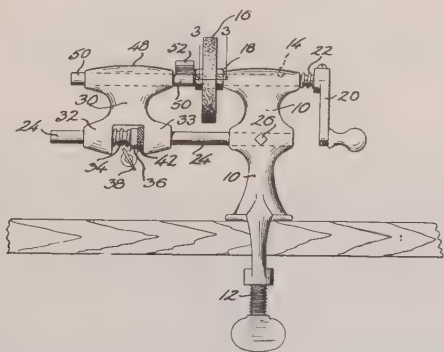


shafts, a second table interposed between said first and second series of shafts for receiving the material to be operated upon endless chains arranged to carry the material to be operated upon to said scoring bars and gripping rolls.

1,422,096. ALLOY CONTAINING IRON, NICKEL, CHROMIUM. PIERRE GIRIN, Paris, France, assignor to Societe Anonyme de Commentry, Fourchambault, & Decazeville, Paris, France. Filed Dec. 9, 1918. Serial No. 265,984. 1 Claim. (Cl. 75-1.)

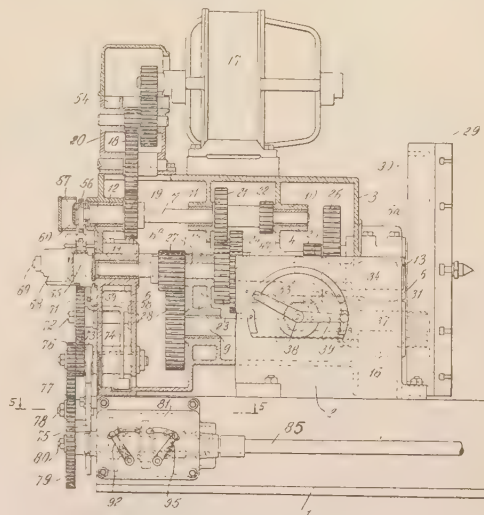
An alloy of iron, nickel, chromium and manganese, containing nickel, 20 to 25 per cent, chromium, 10 to 15 per cent, manganese, 1 to 2 per cent, carbon, 0.2 to 0.5 per cent, such alloy having, together with the mechanical qualities of the best steels, a high resistance to attack by strong acids, organic acids and alkalis, in solution or in fusion.

1,422,097. IGNITION-POINT GRINDER. DAVID H. GREENFIELD, Denver, Colo. Filed Apr. 5, 1920. Serial No. 371,353. 4 Claims. (Cl. 51-166.)



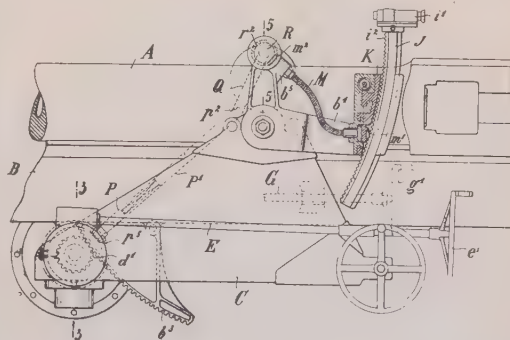
1. An ignition point grinder comprising a standard, a grinding wheel rotatably mounted thereon, a rod secured to said standard and extending therefrom in a direction parallel to the axis of rotation of said wheel, a holder support slidably and rotatably secured to said rod, a holder on said support adapted to clamp an ignition point, and means to adjust the holder to and from the surface of the grinding wheel.

1,422,098. LATHE HEADSTOCK. GEORGE E. GREENLEAF and CLIFFORD F. RANDOLPH, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 9, 1918. Serial No. 261,780. 25 Claims. (Cl. 74-58.)



19. In a lathe headstock, an improved tool feeding mechanism comprising the combination of a spindle, drive mechanism therefor, a combined frame and casing serving to support the said spindle and drive mechanism and serving to enclose the major portions thereof to retain oil and to exclude dirt, a bed supporting the frame, feed gearing mounted at the outer end of the said frame and casing entirely outside thereof, the initial element of said gearing being mounted on said casing, a feed shaft extending longitudinally of the bed at the front thereof, and a sliding gear change speed mechanism comprising a pair of parallel shafts having a plurality of gears thereon connecting the feed gearing with the feed shaft, one of said shafts being directly connected to and in alignment with said feed shaft.

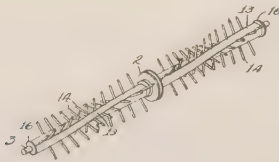
1,422,099. GUN WITH INDEPENDENT SIGHTING LINE. WALTER HEILEMANN, Essen-on-the-Ruhr, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 26, 1915. Serial No. 30,639. 4 Claims. (Cl. 89-41.)



1. In a gun having a carriage and a gun barrel adapted to be elevated relatively to the carriage, a sighting device comprising a base member adapted to be elevated in unison with the gun barrel, a sighting means carrier adjustable relatively to said base member for range and a gearing for adjusting the sighting means carrier relatively to said base member, a planetary gearing mounted on the carriage

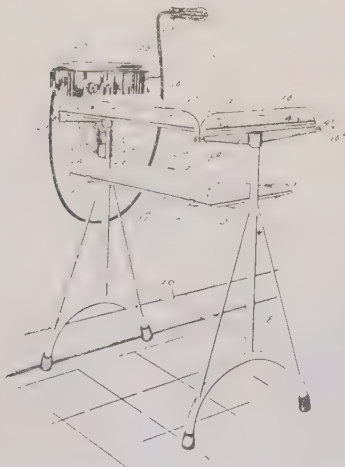
and comprising two coaxial central wheels rotatable independently of each other, a bridge member rotatable about the same axis as said central wheels and planetary wheels rotatably mounted on the bridge member in a distance away from said axis and engaging said central wheels, means for elevating the gun barrel positively connected to said bridge member, two driving members rotatably mounted on the gun carriage on opposite sides of the gun barrel each being positively connected to one of said central wheels and means positively connecting one of said driving members to said sighting means adjusting gearing for rotating the sighting means carrier relatively to the gun barrel about the same angle but in opposite direction as the gun barrel is rotated when said last-named driving member is actuated and the other driving member is held stationary, the sighting means carrier and the driving member positively connected thereto being arranged on opposite sides of the gun barrel.

1,422,100. BEATER FOR SUCTION CLEANERS. EARL B. HOFF, East Cleveland, Ohio, assignor, by mesne assignments, to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio, a Corporation of New York. Filed Mar. 5, 1919. Serial No. 280,813. 5 Claims. (Cl. 15—188.)



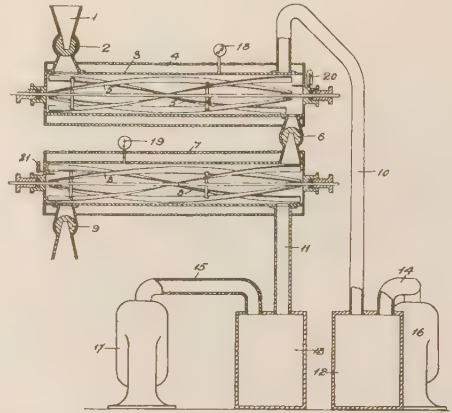
3. As an article of manufacture a hollow prismatic rubber sleeve having flexible lashes projecting outwardly from its edges, the ends of said sleeve being open.

1,422,101. KNOCKDOWN DENTAL AND SURGICAL TABLE. WALTER G. HOLMES, Minneapolis, Minn. Filed Nov. 29, 1920. Serial No. 426,946. 4 Claims. (Cl. 45—31.)



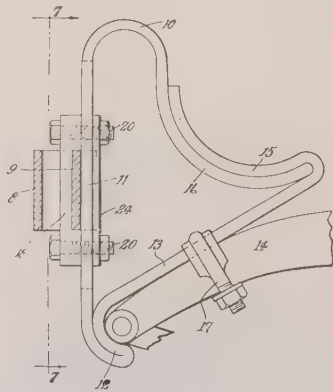
1. A dental or surgical table including a frame having supporting end members, a cross bar connecting said end members, cross arms on the end members and cross bar, and a table top and a shelf supported on the cross arms.

1,422,102. PROCESS FOR AGING WHEATEN FLOUR TO IMPROVE ITS BAKING QUALITIES. ROBERT HUTCHINSON, Nottingham, England. Filed Mar. 19, 1921. Serial No. 453,687. 5 Claims. (Cl. 83—42.)



1. A process for improving the "strength" or baking qualities of wheaten flour in which a wheaten material is subjected to a heat treatment to effect a partial heat-coagulation of the gluten proteins, and such treatment is controlled by varying the fluid pressure exerted on the materials.

1,422,103. AUTOMOBILE BUMPER. NEIL MACINNES, Chicago, Ill. Filed Nov. 30, 1921. Serial No. 518,750. 14 Claims. (Cl. 293—55.)

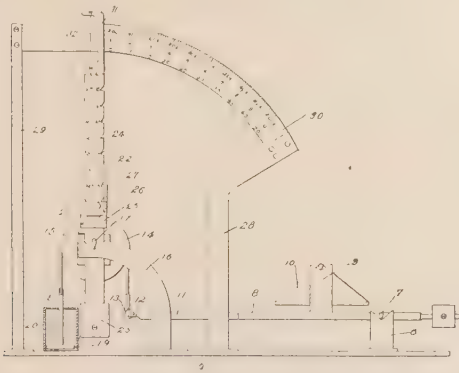


4. A bumper comprising a bar having two portions struck from the ends thereof and extended rearwardly and shaped into arches to form securing and stiffening members for said bar, substantially as described.

1,422,104. SCALE. HENRY F. KINSEY, Chattanooga, Tenn. Filed Jan. 18, 1921. Serial No. 438,158. 3 Claims. (Cl. 265—36.)

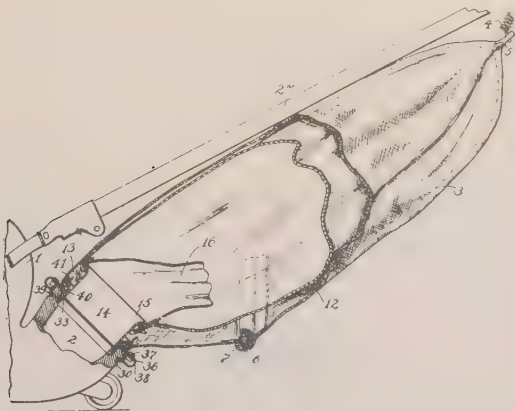
1. In a scale, a base, a beam frame supported above the base and carrying a scale pan, bracket members supported by the base, a drum supported by the bracket members, a ribbon having connection with the beam frame and passing over the drum, an indicating beam having notches formed therein and having numerals disposed thereon opposite the notches, a pair of weights adjustable on the in-

dicating beam and adapted to be positioned opposite the notches, to shift the center of gravity of the indicating



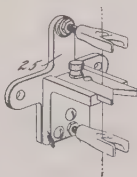
beam, a dial cooperating with the indicating beam, said dial having a line of numbers cooperating with the respective adjustable weights.

1,422,105. SUCTION CLEANER. JAMES B. KIRBY, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed Jan. 20, 1915. Serial No. 3,191. 22 Claims. (Cl. 183-44.)



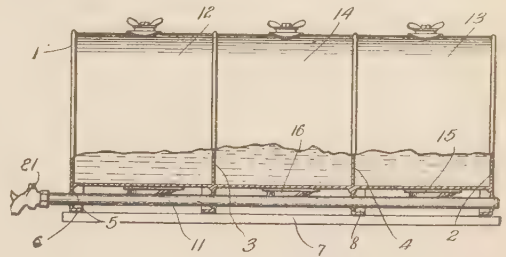
20. In a dust-bag for vacuum cleaners, the combination with the bag proper, of a rigid sleeve forming an inlet to the bag at its lower end, said bag having an outlet in said end adjacent said inlet, and a closure for said outlet.

1,422,106. THREAD-CLEANER. WALTER J. KLOTS, Scranton, Pa., assignor to W. J. Klots Raw Silk Cleaner Co., Inc., a Corporation of Delaware. Filed May 13, 1922. Serial No. 560,797. 5 Claims. (Cl. 28-70.)



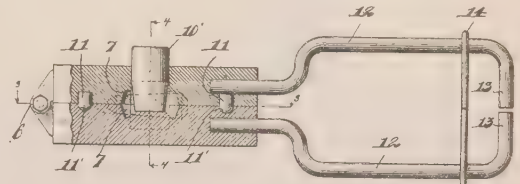
1. A thread cleaner comprising an integral flat plate of treatment hardened steel substantially $\frac{1}{8}$ of an inch in thickness having an open ended narrow slot therein the walls of which meet the face of the plate toward which the thread is moved at sharp right angles.

1,422,107. TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas City, Mo. Filed Oct. 15, 1920. Serial No. 417,097. 5 Claims. (Cl. 280-5.)



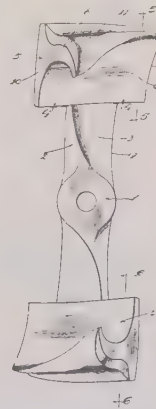
1. A wagon tank having end sheets and partition sheets provided with integral bolsters, dispensing pipes extending the length of the tank and connecting the bolsters, and means for effecting communication between the pipes and the tank.

1,422,108. MOLD. EDWARD J. KUKAC, Chicago, Ill. Filed Aug. 2, 1919. Serial No. 314,814. 3 Claims. (Cl. 22-153.)



1. A mold adapted for casting storage battery terminals comprising a pair of hinged connected co-operating blocks; a matrix in the co-operating faces of said blocks; a removable core positioned through one block substantially at the central portion thereof and extending into said matrix; a second removable core in said matrix, said second core being tapered and located longitudinally in the meeting faces and within the end walls of said blocks; and an exterior opening communicating with said matrix.

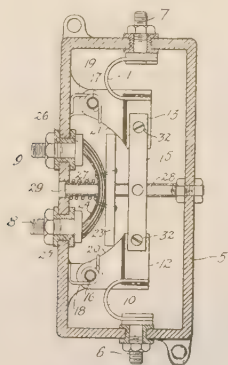
1,422,109. PROPELLER. FRANK WILSON LAMBERT, Hancock, Iowa. Filed Oct. 21, 1921. Serial No. 509,356. 2 Claims. (Cl. 170-170.)



1. A propeller comprising a hub, a blade radial thereto and having a surface contour adapting it to exert a pro-

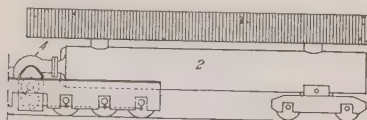
pulling force in action, and a circumferential fluid compression blade carried at the outer end of the radial blade and disposed diagonally to the axis of the hub, the working surface of the last mentioned blade being relatively gradually transversely curved at the advancing end of the blade and of gradually increasing transverse curvature in the direction of the hub and of the blade.

1,422,110. INTERLOCK CIRCUIT PROTECTOR. JUSTIN LEBOVICI, Oakley, Ohio, assignor to The Triumph Electric Company, a Corporation of Ohio. Filed Apr. 26, 1919. Serial No. 292,976. 9 Claims. (Cl. 175—294.)



7. The combination with a polyphase circuit of a fuse in the circuit of each of said phases respectively, a circuit breaking element in the circuit of each of said phases respectively and openable independently of each other, said circuit breaking elements being biased to move to open position, and means whereby the fuse of each circuit respectively holds in closed position one of said circuit breaking elements connected in the phase of another circuit.

1,422,111. TURBINE-DRIVEN LOCOMOTIVE. FREDRIK LJUNGSTROM, Brevik, Lidington, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Corporation. Filed Oct. 19, 1921. Serial No. 508,896. 6 Claims. (Cl. 105—38.)

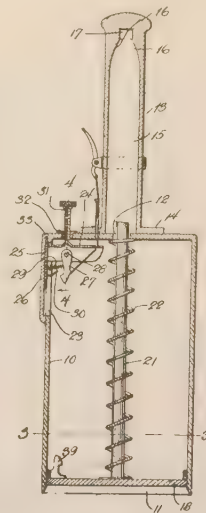


1. In locomotives in which the driving wheels are actuated by turbines with the assistance of toothed gearings, and provided with a boiler carriage and a condenser placed on a separate carriage, the arrangement that one or more high pressure turbine systems with driving devices are disposed on the boiler carriage and one or more low pressure turbine systems with driving devices are disposed on the condenser carriage.

1,422,112. MEASURING DEVICE. EMORY HAMMETT LORD, Washington, D. C. Filed Mar. 4, 1920. Serial No. 363,352. 5 Claims. (Cl. 73—165.)

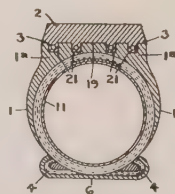
1. In a measuring device, a container portion open at one end, a handle, a plunger movably mounted in said

container portion, means to yieldingly retain said plunger normally in its forwardmost position, means carried by said container portion to limit the rearward movement



of said plunger, and said last-named means being adjustable to vary the limit of backward movement of said plunger.

1,422,113. PNEUMATIC TIRE. WILLIAM McEWEN, Waiuku, Auckland, New Zealand, assignor of one-half to William Cory Scott Hosking, Waiuku, Auckland, New Zealand. Filed Dec. 13, 1918, Serial No. 266,533. Renewed Apr. 18, 1922. Serial No. 555,235. 1 Claim. (Cl. 152—19.)



In combination, a pneumatic tire having the inner edges of its walls connected and the outer edges of its walls disconnected and thickened to form a relatively broad external peripheral face and having annular grooves in said peripheral face of the tire; a detachable tread having a broad internal peripheral face to substantially match the external peripheral face of the tire, said internal peripheral face of the tread having annular ribs adapted to fit into and match the annular grooves in the external face of the tire whereby when said tread is attached to said tire the former is held to the latter against movement laterally thereof, said tread being split transversely to permit its being wrapped around the tire in being mounted thereon, the walls of said annular grooves in the tire being parallel with each other and substantially perpendicular to the axis of rotation of the tire and the walls of said ribs being likewise formed so that the tread can be mounted on the tire by merely wrapping the same around the tire, the ribs seating themselves in said grooves; and means for securing the ends of said tread together to hold the same firmly to the tire.

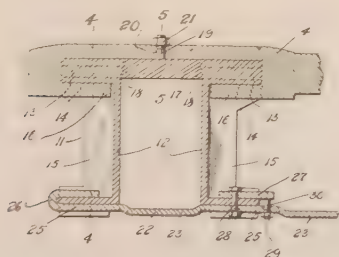
1,422,114. AIR-TIGHTLY SEALING COMPOSITION FOR METAL CONTAINERS, SPECIALLY THOSE FOR FOOD. JAMES HENRY MACKENZIE, Sydney, New South Wales, Australia. Filed Aug. 19, 1920. Serial No. 404,655. 4 Claims. (Cl. 106—8.)

1. A glutinous composition for sealing tins consisting of a pasty mass of flour, gums, and water, sufficient glycerine to emulsify the mass, sufficient rosin to render said mass tenacious and sufficient methylated spirit to dissolve said rosin.

1,422,115. COMPOSITION FOR TREATING MANUFACTURED RUBBER. RHETHERFORD B. MARTIN, New York, N. Y. Filed May 20, 1919. Serial No. 298,421. 7 Claims. (Cl. 134—1.)

5. A composition for treating manufactured rubber containing a larger portion of phenylamine and a smaller portion of cotton seed oil.

1,422,116. RAILWAY TRUCK. SAMUEL A. MATHERS, Chillicothe, Ohio. Filed Jan. 12, 1921. Serial No. 436,656. 3 Claims. (Cl. 105—206.)



1. In a truck, a frame, said frame having the ends thereof formed to include longitudinal sockets, spaced pedestals arranged to be received within said sockets by longitudinally separating the pedestals, a spacing block positioned between the upper ends of said pedestals and operating to maintain the latter positively in spaced relationship, and braces secured to the lower end of said pedestals and serving to connect the latter positively with said frame.

1,422,117. GUARD CHAIN FOR PNEUMATIC TIRES. FRANCIS L. MERKLE, Portland, Me. Filed May 31, 1921. Serial No. 473,890. 2 Claims. (Cl. 152—16.)

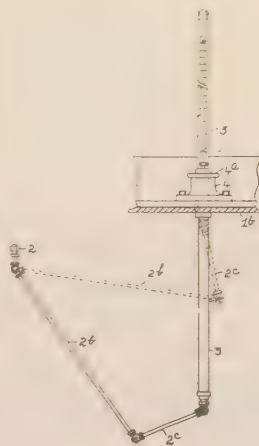


1. An armor for pneumatic tires consisting of a series of hollow sections in contact, each extending across the tread and up on the sides of the tire to be held in position by lateral friction, each end of each section having a radially projecting flange, a U-shaped connecting coupling fitting over adjacent flanges, said couplings and said flanges having corresponding bolt holes with connecting bolts for securing said sections together.

1,422,118. LEVEL-REGISTERING MEANS. FRANK W. MERRITT and ALFRED E. WATTS, Duluth, Minn. Filed Apr. 4, 1921. Serial No. 458,393. 1 Claim. (Cl. 33—209.)

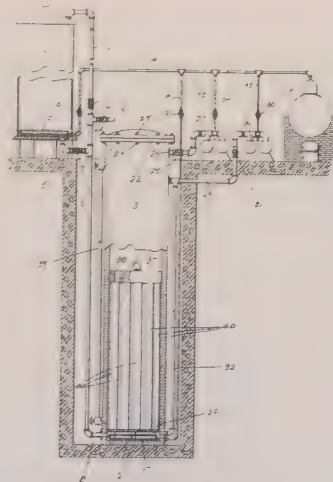
The combination with a vessel including a hull and a deck, a fluid reservoir having flexible terminals at its op-

posite ends, a vertically disposed fluid operated level gauge mounted upon each of said terminals and adapted to communicate therewith, said gauges being adapted to stand so that the zero or central horizontal gauge lines on both of them will be in the same horizontal plane when said ves-



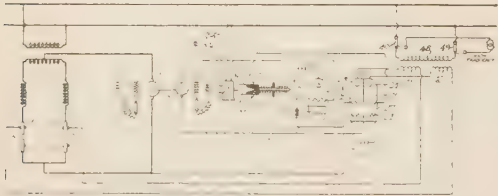
sel is level, housings mounted on said deck in registration with said gauges, said gauges being adapted to normally extend into said housings and in operation to extend upward through said housings, and means for supporting said gauges in raised position.

1,422,119. METHOD OF AND APPARATUS FOR TREATING TIMBER AND THE LIKE. AUGUST MEYER, Minneapolis, Minn., and PHILIP R. WALSH, St. Louis, Mo., assignors, by mesne assignments, to Duplex Holding Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 3, 1921. Serial No. 489,471. 4 Claims. (Cl. 99—12.)



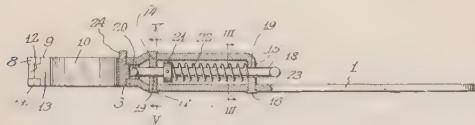
1. The herein described process of treating a predetermined portion of a piece of timber with a preservative liquid by immersing a terminal portion thereof to the desired extent in the treating liquid, and producing a pressure above the liquid and about the free extending portion of the piece of timber to cause a penetration of the liquid.

1,422,120. REGULATING AND CONTROL APPARATUS AND SYSTEM. FRIEDRICH WILHELM MEYER, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 24, 1920. Serial No. 368,330. 7 Claims. (Cl. 171—119.)



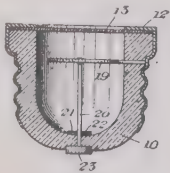
1. A regulator for regulating a machine subject to variations in load and power conditions, having in combination an open air arc discharge rectifier for regulating the machine, and electroionic means subject to the varying conditions for controlling the arcs of said rectifier.

1,422,121. RATCHET WRENCH. RUDOLPH A. MILLEN, Detroit, Mich. Filed Nov. 10, 1919. Serial No. 336,798. 1 Claim. (Cl. 81—60.)



A ratchet wrench comprising a flat bar having a head at its outer end provided with a slot, a flat plate disposed in parallelism with the outer end of said bar and having a head with a slot therein, said plate having its inner end bent and anchored in said bar to form an end wall, a transverse partition between said bar and plate adjacent the heads thereof, tongues on said partitions extending into said bar and plate and anchored therein, a ratchet nut engaging collar journaled in said bar and plate heads with the ratchet portion of said collar extending between said heads, said collar having a slot adapted to register with the slots of said bar and plate heads, a pawl slidable and rotatable in said partition and the end wall of said plate and having its outer end normally engaging said ratchet nut engaging collar, an abutment on said pawl adjacent said partition, a spring encircling said pawl between said abutment and the end wall of said plate and holding said pawl in engagement with said ratchet nut engaging collar, and a crank on the inner end of said pawl for turning said pawl so that the action thereof relative to ratchet nut engaging collar may be reversed.

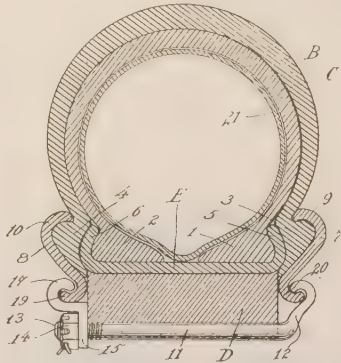
1,422,122. FUSE. JOHN ALLAN NELSON, Charleston, S. C. Filed Jan. 12, 1920. Serial No. 350,862. 1 Claim. (Cl. 200—130.)



A screw plug fuse of the class described, comprising a cup-shaped body portion made of insulating material and having the usual metallic screw sleeve about a portion of its exterior side surface, a transparent closure for the top of the body portion, a metallic button seated in the exterior bottom surface of the body portion, centrally thereof,

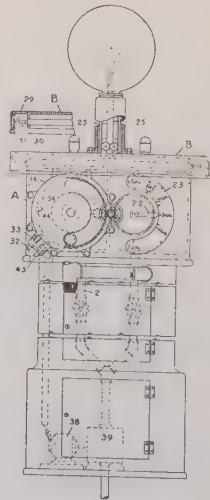
a rod having its one end secured to the metallic button and extending upwardly through the bottom of the body portion, and its upper end terminating at a point in close proximity to the transparent closure, projections extending from said rod and engaging the bottom surface of the body portion of the plug and adapted to cooperate with the metallic button for holding said rod against longitudinal movement, and a coiled fuse element having its inner end connected to the upper end of the rod and its other end extended through the side wall of the body portion of the plug and connected with the threaded metallic sleeve.

1,422,123. TWO-IN-ONE RUBBER TIRE. WILLIAM O'CONNELL, Cincinnati, Ohio. Filed Dec. 31, 1919. Serial No. 348,628. 2 Claims. (Cl. 152—17.)



1. A wheel for vehicles provided with a rim and pneumatic tire thereon, and an auxiliary beaded casing embracing the main casing, of a pair of annular bands of an ogee curve in cross section forming oppositely disposed hooks, the hooked portion on the edge of the bands engaging the beads of the auxiliary casing, and the bodies of the bands lying against the outside inwardly sloping surfaces of the beads, and fastening devices secured underneath the wheel felloe and engaging the hooked portions of the other edge of the bands, with means for drawing the fastening devices toward each other to draw and lock the auxiliary casing in place.

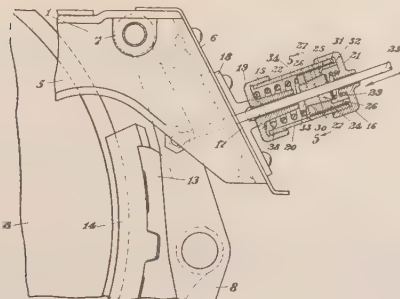
1,422,124. DISPENSING TANK. WILLIAM HERMAN OPITZ, Fort Wayne, Ind. Filed Aug. 16, 1919. Serial No. 317,920. 2 Claims. (Cl. 221—100.)



1. A dispensing tank having in combination therewith means for charging liquid into the tank, an overflow pipe,

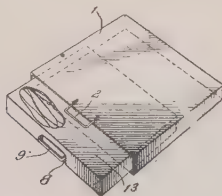
a plurality of openings arranged in the arc of a circle and vertically spaced at distances from the inlet to the overflow pipe proportional to the quantities of liquid to be withdrawn from the tank, a rotatably mounted gate or valve provided with a port and means for rotating the gate or valve to bring said port into alignment with any of the spaced openings.

1,422,125. RELEASE AND TAKE-UP DEVICE FOR BRAKES. ALFRED K. PEHRSON, Pittsburgh, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Nov. 17, 1919. Serial No. 338,497. 15 Claims. (Cl. 188—199.)



5. In a brake mechanism, the combination with a car truck frame, of a car wheel, a brake shoe movable into and out of engagement with said wheel, and a friction device mounted on said frame and connected with said mechanism for maintaining the face of the shoe a predetermined distance from said wheel when the brake is released, said means being adapted to compensate, when the brake shoe is applied to the wheel, for any wear of the face of the shoe or tread of the wheels.

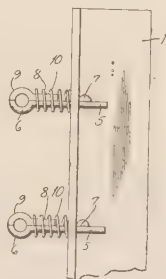
1,422,126. METHOD AND APPARATUS FOR HANDLING COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Filed Oct. 12, 1921. Serial No. 507,170. 6 Claims. (Cl. 99—14.)



1. The method of handling comestibles, such as fish and the like, for refrigerating them substantially en masse which consists in arranging the comestibles in regular formation to fill an open scoop-shaped container, then placing said scoop-shaped container in the open end of a second upright thin-walled and water-tight container wherein said first container is fitted to slidably engage therewith, and then immersing said second container in a refrigerant to a level not permitting the entry of the refrigerant into the second container but substantially on a par with or above the level of the comestibles contained therein.

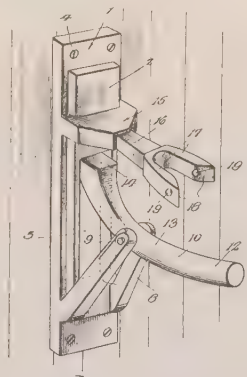
2. An apparatus for handling comestibles comprising an open pan, a telescopic lid therefor, and a second water-tight can having an open end wherein said pan and lid may be inserted, said can having a tapering form longitudinally of its length and width and slidably engaging with said pan and lid.

1,422,127. WIRE FENCE FASTENER. VALDEMAR PETERSEN, St. Ansgar, Iowa. Filed Sept. 28, 1921. Serial No. 503,832. 2 Claims. (Cl. 256—48.)



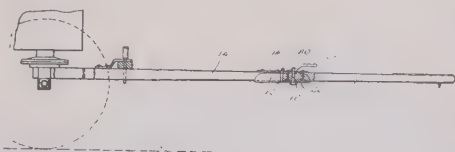
1. In a wire fence fastener, a clip bar terminating at one end in a head, a finger bar pivotally secured to said clip bar and formed with a head adapted to cooperate with the clip bar head, a straight finger pivotally secured to said clip bar, and a spring adapted to encircle said clip bar and one finger.

1,422,128. HARNESS HOOK. HARVEY W. RAGER, Ponca, Nebr. Filed Apr. 19, 1921. Serial No. 462,617. 2 Claims. (Cl. 248—24.)



1. In a device of the class described, an attaching plate provided with a perpendicular slot terminating with flat top and bottom end walls, arms extending forwardly from the plate, a hook pivotally supported between the ends of said arms, an inwardly extending shank on said hook engaging in said slot and adapted to abut with said top and bottom end walls respectively in open and closed positions of said hook, and a bifurcated keeper integral with said plate adapted to receive the free end of said hook when in closed position.

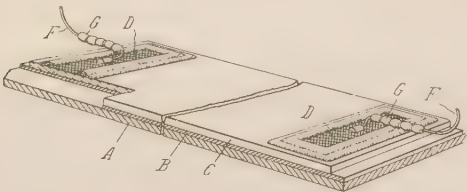
1,422,129. TRACTION COUPLING. JOSEPH C. REUSE, Libertyville, Ill. Filed Mar. 16, 1921. Serial No. 452,664. 1 Claim. (Cl. 280—33.2.)



In combination, a vehicle having a forwardly extending pole comprising front and rear sections of approximately equal length, a hinge secured to the top of said pole for connecting adjacent ends of said sections, a channel mem-

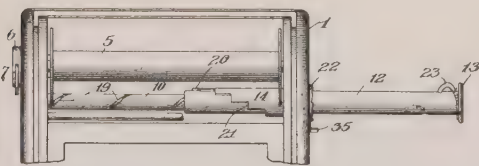
ber secured to the under side of said rear section adjacent the front end thereof and projecting beyond said section for receiving the rear end of said front section and for holding said sections in alignment with one another, a pin having a threaded end arranged to pass through the projecting portion of said channel member and the rear portion of said front section, a nut arranged to be threaded on to said pin for holding said channel member and front section in rigid relation to one another, said channel member having an opening therein for receiving a coupling device when said front section is folded, a double-tree for said vehicle, a pin for securing said double-tree to said pole adjacent the rear end of said rear section, and a ring carried by the upper end of said pin and arranged to receive the free end of said front section when said front section is folded backwardly along the upper face of said rear section.

1,422,130. ELECTRICAL HEATER RESISTANCE ELEMENT. ROBERT WOOLRIDGE REYNOLDS, Darlinghurst, near Sydney, New South Wales, Australia. Filed Feb. 18, 1921. Serial No. 446,079. 4 Claims. (Cl. 219—76.)



1. An electrical heater resistance element consisting of an electrically insulating support, terminal wiring attachments mounted on said support, a painted on and dried out film surface containing a water-washed chemically precipitated silicic vehicle, and powdered graphite incorporated in said silicic vehicle.

1,422,131. FILM-WINDING MECHANISM FOR CAMERAS. WILLIAM A. RIDDELL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 16, 1918. Serial No. 222,799. 11 Claims. (Cl. 242—71.)

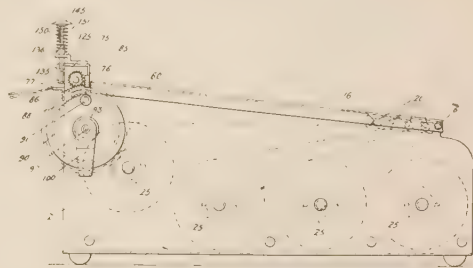


7. In a film camera, the combination with a film winding roll and driving means therefor embodying a push rod and mechanism for converting the reciprocatory motion thereof into rotary motion, of means for progressively limiting the actuating movement of the push rod comprising a rotary sleeve surrounding the latter and provided with a plurality of stepped stops and with a ratchet, an abutment on the push rod adapted to cooperate, singly, with said stops when the push rod is moved in one direction and a spring finger on the latter adapted to engage the ratchet and rotate the sleeve when the push rod is moved in the opposite direction.

1,422,132. AUTOGRAPHIC REGISTER. HERBERT L. ROBERTS, Toronto, Ontario, Canada, assignor to Business Systems, Limited, Toronto, Ontario, Canada, a Corporation of Canada. Filed Sept. 24, 1918. Serial No. 255,481. 8 Claims. (Cl. 282—21.)

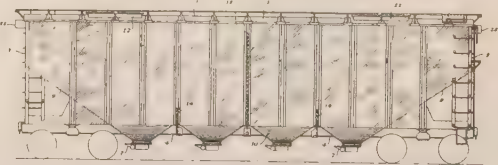
1. In a machine of the character described, the combination of a feed roll mounted in fixed bearings, a spring

pressed frame pivotally mounted adjacent to said fixed feed roll, a second feed roll journaled in said frame, suitable registering means adapted to relatively shift super-



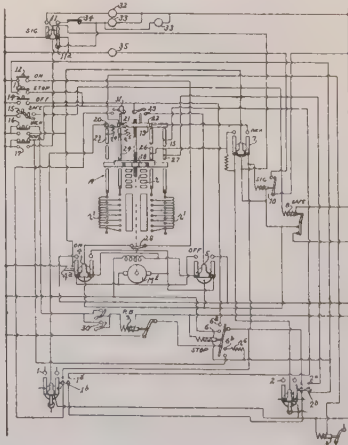
posed webs into registered position, and means for rocking said frame for simultaneously separating said feed rolls and actuating said registering means.

1,422,133. GRAIN CAR. WILLIAM J. ROBIDER, Westmount, Quebec, Canada. Filed Dec. 9, 1920. Serial No. 429,408. 9 Claims. (Cl. 105—248.)



1. In a railway car having metal sides and ends, a metal center sill, a plurality of metal hoppers correspondingly arranged on each side having longitudinal walls inclined downwardly from the car sides and center sill, and transverse walls inclined downwardly at a lesser angle with the adjacent meeting edges forming equal angles and having discharge openings and closures at the bottom, a metal partition extending from side to side and from between the adjacent walls of the middle hoppers to near the top of the sides and a removably mounted metal roof.

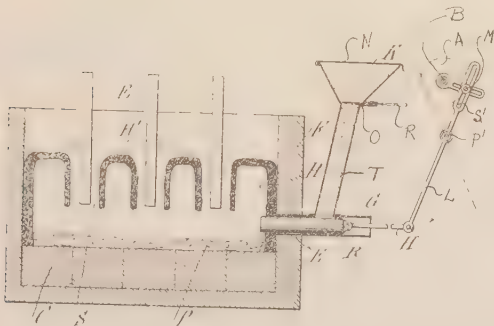
1,422,134. MOTOR CONTROLLER. THOMAS H. RODMAN, New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 27, 1920. Serial No. 406,505. 14 Claims. (Cl. 172—179.)



3. In a motor controller in combination power operated starting and stopping means, a control station there-

for including starting, stopping and resetting elements and connections requiring operation of said resetting element as a prerequisite to use of said starting element for restarting after operation of said stopping element.

- 1,422,135. METHOD OF MANUFACTURING CALCIUM CARBIDE. WILLIAM B. ROGATZ, Plattsburg, N. Y., assignor to Farmers Standard Carbide Co., Plattsburg, N. Y., a Corporation of New York. Filed May 5, 1921. Serial No. 467,176. 6 Claims. (Cl. 204—62.)



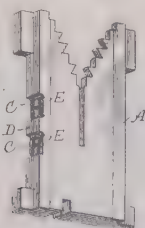
1. In the art of making calcium carbide in an electric furnace, that step in the art which consists in feeding the material through the wall and side crust of the furnace and above the molten material in the furnace and below the top crust of the furnace.

- 1,422,136. MATRIX MANUFACTURE. JOSEPH L. ROUSSEAU, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 1, 1921. Serial No. 488,865. 5 Claims. (Cl. 101—401.2.)



1. In the art of manufacturing matrices, providing an oversized blank, forming in the edge of said blank a notch of a depth not to extend below the final edge of the matrix, punching the character impression in the bottom wall of said notch and of a depth to extend below the final matrix edge, and thereafter dressing down the blank edge to produce the final matrix edge.

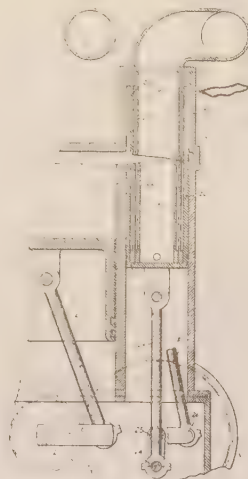
- 1,422,137. ART OF MANUFACTURING MATRICES. JOSEPH L. ROUSSEAU, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Aug. 1, 1921. Serial No. 488,866. 5 Claims. (Cl. 101—401.2.)



1. In the art of manufacturing plural-character matrices, providing a blank with a raised portion on its

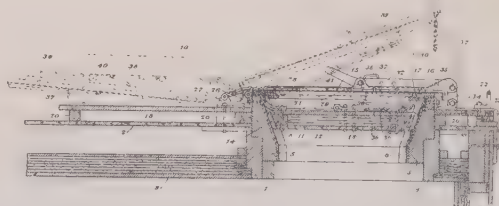
character edge occupying the zone intermediate two adjacent character zones, punching the matrix characters in their respective zones, and thereafter dressing down the raised portion to the edge of the blank.

- 1,422,138. VALVE MECHANISM FOR GAS ENGINES. EPPA H. RYON, Waltham, Mass. Filed Aug. 18, 1919. Serial No. 318,076. 7 Claims. (Cl. 123—188.)



1. A valve mechanism for gas engines having a cylinder and piston, comprising a cylindrical casing, a plurality of co-operating fixed and movable concentric sleeves oppositely disposed within said casing, said sleeves being reversely beveled at their adjacent ends to form a port for the passage of gases when partially separated, and means to operate said movable sleeves in timed relation to said engine piston to open and close said port.

- 1,422,139. HATCH COVER FOR REFRIGERATOR CARS. AUGUST G. SANDMAN, Baltimore, Md. Filed Dec. 13, 1920. Serial No. 430,250. 7 Claims. (Cl. 105—377.)

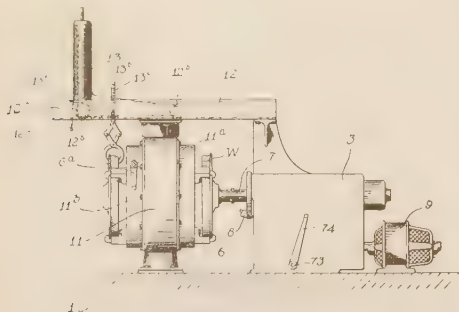


1. In a refrigerator car having a hatchway in the roof thereof, hatch timbers about the hatch, a hatch plug fitting between the hatch timbers, a hinged hatch cover and means adapted for detachably engaging the plug to the cover.

- 1,422,140. CAR-WHEEL-BORING MACHINE. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 6, 1920. Serial No. 401,719. 38 Claims. (Cl. 29—38.)

1. In a boring machine, the combination of a base, a substantially vertically extending work holder thereon comprising a chuck, a tool support also mounted on the base, a tool mounted in the tool support, means extend-

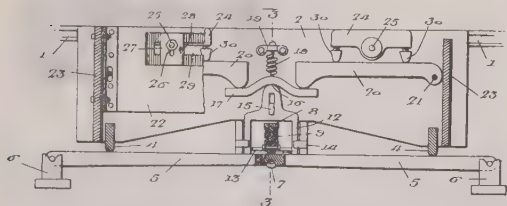
ing across the tops of the work holder and tool support and rigidly connecting such members, and means for causing relative rotating and feeding movements between the tool and chuck.



15. In a boring machine, the combination of a base, a work-holding turret comprising two chucks mounted on the base for movement about an approximately vertical axis whereby either chuck may be placed in the tooling position and the other chuck in the work-chucking position, a tool support also mounted on the base, means rigidly connecting the turret and tool support, a boring bar mounted in the tool support coaxially of the chuck in the tooling position, wedge means for securing the turret in the working position, and means for causing relative rotating and feeding movements between the bar and last mentioned chuck.

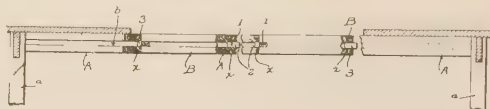
30. In a boring machine, the combination of a base, a work holder thereon, a boring bar, a fluid pressure cylinder operatively connected to the bar, a piston operative within the cylinder, a piston rod connecting the piston to the base, two fluid pressure pipes, fluid pressure conduits through the piston rod connecting the pipes to the opposite sides of the piston respectively, valves in the pipes for controlling the flow of fluid to the opposite sides of the piston, means connecting such valves and adapted in one position to leave a restricted opening through one valve whereby the flow of fluid is regulated to slowly feed the boring bar forward and in another position to leave a full opening through such valve whereby the flow of fluid in the opposite direction may be rapid to permit the rapid withdrawal of the bar, and means for rotating the bar.

1,422,141. WEIGHING MECHANISM. STEPHEN WALTER SHUFORD, Woodlawn, N. C. Filed Aug. 8, 1919. Serial No. 316,142. 5 Claims. (Cl. 265—9.)



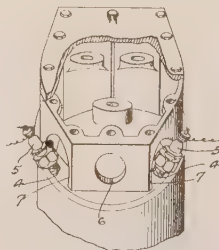
1. A weighing apparatus embodying a yieldable platform arranged for the movement of railroad cars thereover, a recording device having a recording member operatively connected to said platform to be positioned by the depression of the platform, and means operated by the wheels of the cars and adjustable with respect to the platform longitudinally of the line of movement of the cars for bringing the recording member into operation to make a record when the car is moved on the platform to a predetermined position.

1,422,142. EXTENSION-TABLE SLIDE. HARRY N. SMITH, Watertown, Wis., assignor to Watertown Table Slide Company, Watertown, Wis., a Corporation of Wisconsin. Filed July 26, 1921. Serial No. 487,664. 3 Claims. (Cl. 45—115.)



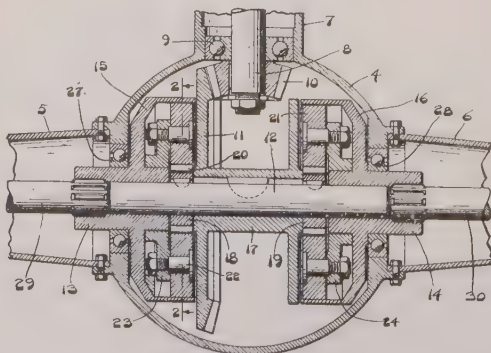
1. The combination of slide-bars having longitudinal recesses therein, and a block having an upper surface, a second surface, spaced lower than said first mentioned upper surface, a lower surface spaced below said second upper surface, and a second lower surface spaced below said first mentioned upper surface, the distances between said upper surfaces being unequal to the distances between said lower surfaces, and said slide-bars receiving said block in said recesses and contacting with said surfaces.

1,422,143. INTERNAL-COMBUSTION ENGINE. WILLIAM J. SNADECKI, Bridgeport, Conn., assignor to Richard Crane, Washington, D. C. Filed May 13, 1918. Serial No. 234,127. 1 Claim. (Cl. 123—55.)



In combination with the cylinder head of an internal combustion engine, two exhaust outlets at one side and a gas inlet opposite thereto, a spark plug at each side of said inlet, said spark plugs passing through said cylinder head at such an angle that when said cylinders are mounted in a V-type engine said spark plugs are substantially vertical, a clearance through said cylinder head around said spark plug, said cylinder head providing water-jacketing means around said outlets and detachably secured to said cylinder.

1,422,144. POSITIVE BOTH-WHEEL-DRIVE DIFFERENTIAL. ALBERT B. SOWDEN, Covington, Ky. Filed Apr. 29, 1920. Serial No. 377,637. 1 Claim. (Cl. 74—7.)

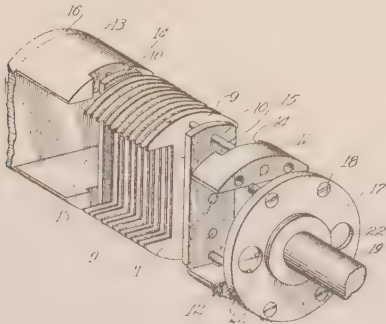


In a single differential housing supported by torque tube and axle housings, a short driven shaft within said

housing, an axle in each axle housing, a pair of drums having hubs rotatively mounted on said short driven shaft and having detachable driving connection with said axles respectively, a gear fixed on the driven shaft, within each drum, a rotatively mounted disk in each drum, a series of double faced cams pivotally mounted on each disk adapted to be moved into clamping engagement with said drums respectively, in either direction and having gear teeth thereon meshing with the teeth of said gears, respectively, a beveled gear keyed on said short driven shaft between said drums and having means to close said drums respectively, a beveled pinion engaging said beveled gear and a drive shaft on which said beveled pinion is keyed, substantially as set forth and for the purposes specified.

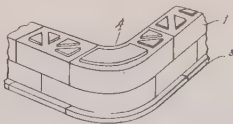
1,422,145. ARMATURE FOR MAGNETO MACHINES.

JOHN ROY STARK, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed Aug. 25, 1920, Serial No. 405,958. Renewed Nov. 25, 1921. Serial No. 517,837. 4 Claims. (Cl. 171—207.)



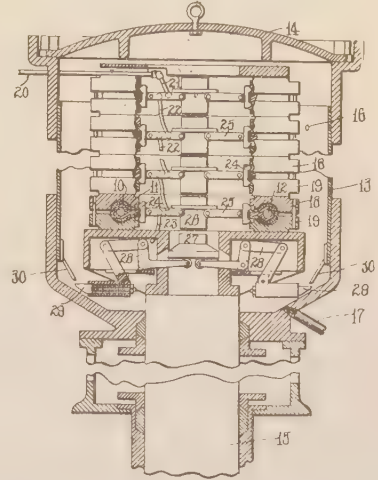
1. An armature for a magneto machine comprising a core structure consisting of a group of substantially I-shaped laminæ and a pair of bars, one disposed on each side of the laminæ and rigidly secured thereto, segmental blocks disposed at the ends of the core structure and provided with notches whereby the blocks may embrace said bars, and means extending through the blocks and through the core structure arranged to hold the blocks upon the core structure.

1,422,146. BUILDING BLOCK. WILLIAM TACKENBERG, Cincinnati, Ohio. Filed Nov. 29, 1921. Serial No. 518,662. 1 Claim. (Cl. 72—38.)



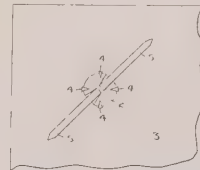
In building blocks, triangular lugs and depressions, on opposite sides thereof, said lugs and depressions being arranged to interlock between superimposed blocks to secure the same against displacement in all directions in horizontal planes, and the abutting surfaces of the lugs on one end of the block corresponding in disposition to the engaging surfaces of the depressions on the other end of the block, so as to necessitate breaking of joints between courses.

1,422,147. METHOD OF TREATING RUBBER ARTICLES. EDWARD C. TAYLOR, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1920. Serial No. 415,366. 3 Claims. (Cl. 18—53.)



1. The method of vulcanizing an assembled tire casing comprising locating the casing on a hollow core, directing a cooling medium into the interior of the core, subjecting the exterior of the casing to heat, and subsequently applying molding pressure and vulcanizing heat to the casing.

1,422,148. PAPER FASTENER. ARTHUR STANLEY TONKIN, Lyndhurst Road, Hastings, New Zealand, assignor of one-half to Ivan Biggar Logan, Napier, New Zealand. Filed Aug. 8, 1921. Serial No. 490,614. 2 Claims. (Cl. 24—153.)

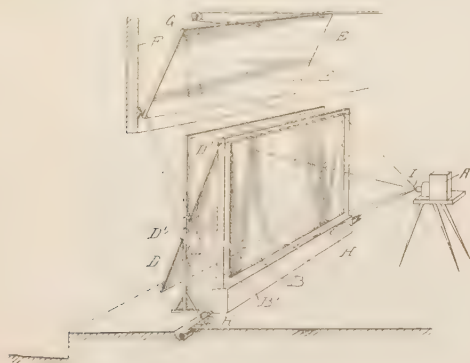


1. A paper fastener comprising, a member bevelled at its outer edge and also provided at its edge with a plurality of bendable prongs adapted to pass through a backing from the outer side, a separate member adapted to be placed between said prongs and secured on the inner side of the backing when said prongs are bent inwardly, and a pair of elongated prongs on said member upon which papers are passed.

1,422,149. SCREEN FOR MOTION PICTURES. JOHN F. R. TROEGER, New York, N. Y., assignor, by mesne assignments, to American Lux Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 3, 1919. Serial No. 335,233. 3 Claims. (Cl. 88—24.)

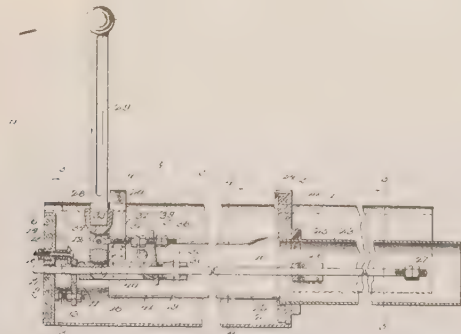
1. The combination of two screens the surfaces of which

are arranged at an angle to each other for the purpose specified and a reflector for reflecting light to the surface



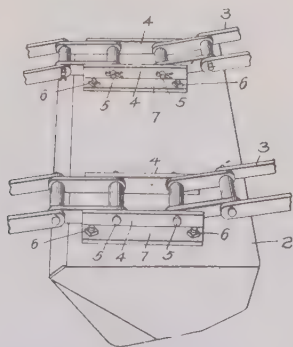
of one of said screens, said reflector having its reflecting surface made of fibrous material.

1,422,150. APPARATUS FOR FORMING CONCRETE PIPES. DANIEL N. TRULLINGER and LEO A. GRANGER, Fresno, Calif. Filed Aug. 19, 1920. Serial No. 404,544. 9 Claims. (Cl. 25—32.)



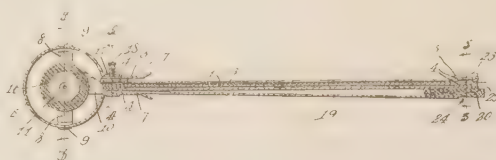
1. An apparatus for the purpose set forth comprising a shell, a core disposed longitudinally within the shell, a head supported upon the shell and adapted to travel longitudinally thereof and normally fitting around the front end of the core, and means whereby the shell, the head and the core may each be shifted longitudinally relative to the others.

1,422,151. CHAIN ATTACHMENT FOR ELEVATOR BUCKETS. HENRY B. WALKER, Lancaster, Ohio. Filed Apr. 12, 1920. Serial No. 373,325. 1 Claim. (Cl. 198—151.)



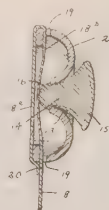
A chain connection for elevator buckets comprising angle-links extending beyond the link-pins, and fastening devices located beyond the link-pins for securing the said angle-links to said buckets.

1,422,152. STAMP RECEIVER. EDWARD MASON WALSH, Monroe, Wash. Filed Jan. 6, 1921. Serial No. 435,498. 3 Claims. (Cl. 216—21.)



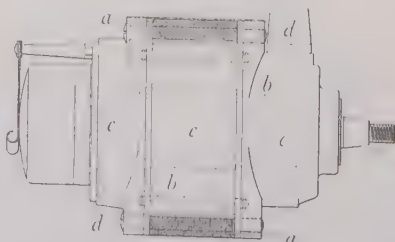
1. In a device of the class described, a stamp guide; a tank extended longitudinally of the guide and provided with a swab located adjacent to one end of the guide; a head including arms between which the other end of the guide and the corresponding end of the tank are received; a yoke receiving the arms; a clamping element in the yoke and coating with one arm to bind the tank and the guide between the arms; and means carried by the head for supporting a roll of stamps for feeding through the guide and upon the path traversed by the swab.

1,422,153. TRUSS PAD. HERBERT A. WARREN, Woburn, Mass. Filed Aug. 17, 1921. Serial No. 492,899. 3 Claims. (Cl. 128—119.)



1. A truss pad comprising an annular body having a base portion, formed to bear on a supporting member, a socket extending inwardly from the outer side of the body, and of greater diameter at its outer than at its inner end, the latter being open; a pressure applicator including a shank extending entirely through the socket, and having an enlargement at its inner end, and an enlarged head of greater diameter than the socket; and a spring which normally holds the shank enlargement against the inner end of the socket, and the head offset from the outer side of the body, the shank and socket being formed to permit a universal tipping movement of the applicator relatively to the body, on a fulcrum formed by the inner end of the socket, said movement being limited by the bearing of a portion of the enlarged head against the outer side of the body.

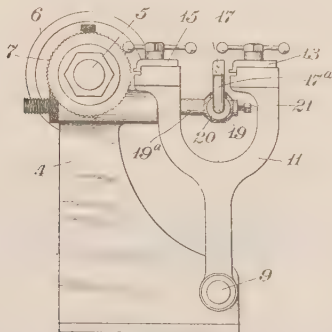
1,422,154. DYNAMO-ELECTRIC MACHINE. ERNEST ANSLEY WATSON, Coventry, England, assignor to The M-L Magneto Syndicate Limited, Coventry, England. Filed Oct. 24, 1921. Serial No. 510,098. 2 Claims. (Cl. 171—209.)



1. In a dynamo electric machine the combination of separate opposed end members having recesses in the

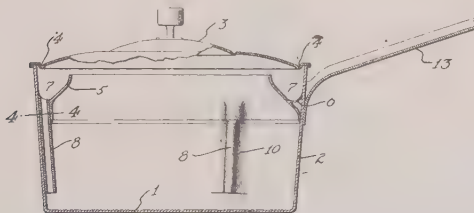
inner faces thereof, permanent magnets confined between said end members, laminated pole pieces located between the end members having openings extending from end to end thereof alining with said recesses, removable pins located in said openings and being of greater length than said pole pieces and projecting beyond the ends of each of the latter, each pin having its opposite ends removably seated in two alined recesses in the opposed end members, and fastening means removed from the pole pieces and passing through the end members for securing the whole together.

1,422,155. KEY-DUPLICATING MACHINE. WILLIAM C. WETTERHOLT, Columbus, Ohio. Filed June 2, 1919. Serial No. 301,348. 1 Claim. (Cl. 90—13.2.)



A key-cutting machine including, in combination, a frame, a rotary cutter carried by the frame, a vertically disposed swinging fork arm having the terminals of its branches lying in substantially the same horizontal plane and in the plane of the axis of the cutter, means for securing a key to be duplicated in one terminal of the fork arm, means for securing a key blank in the other terminal of the fork arm, a pilot supporting means comprising a stem secured in the frame and adjustable transversely the cutter axis, and a pilot secured in said stem and adjustable transversely thereof.

1,422,156. COOKING UTENSIL. BEULAH L. WEVER, Savannah, Ga. Filed Dec. 13, 1921. Serial No. 522,115. 4 Claims. (Cl. 53—1.)

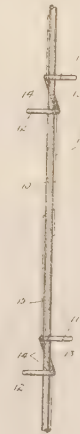


1. A cooking utensil comprising a bottom and side portion arranged to form a vessel, an inwardly-flaring flange disposed on the upper, inner portion of the side to constitute a gutter around the upper inner edge of the vessel and leave a clear interior cooking space for articles to be cooked within the vessel, and a duct leading from the interior of the gutter to the lower portion of the interior cooking space within the vessel.

1,422,157. BAR-SPACING DEVICE. WILLIAM E. WHITE, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,339. 5 Claims. (Cl. 72—122.)

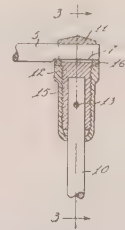
2. In a bar spacer, the combination of a single continuous length of wire, and wire chairs welded thereto at

intervals, said chairs being composed of a portion lying alongside of said length of wire and beneath the same,



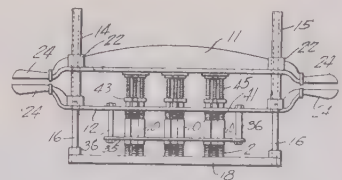
and two legs joined to said portion and one thereof bent over the wire, substantially as described.

1,422,158. MEANS FOR CONNECTING TWO ELEMENTS. JOHN H. WILLIAMS, East Cleveland, Ohio, assignor to The Outlook Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 19, 1920. Serial No. 404,567. 4 Claims. (Cl. 287—53.)



1. In combination, a shaft having a flattened portion, a crank having an aperture for the reception of the shaft, means encircling the crank and adjustable longitudinally of the same for engagement with the flattened portion of the shaft for retaining the crank against angular movement with respect to the shaft.

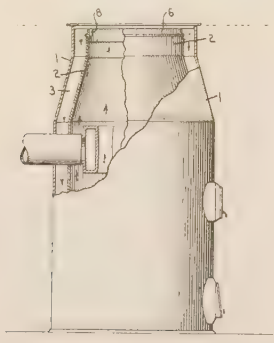
1,422,159. WASHER-PLACING APPARATUS. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 16, 1916, Serial No. 137,368. Renewed Dec. 17, 1920. Serial No. 431,500. 25 Claims. (Cl. 18—1.)



1. A washer-placing apparatus, having in combination, heel molds and washer-supporting pins fixed therein, guide posts in fixed relation with said pins, pins for holding stacks of reserve washers arranged correspondingly to

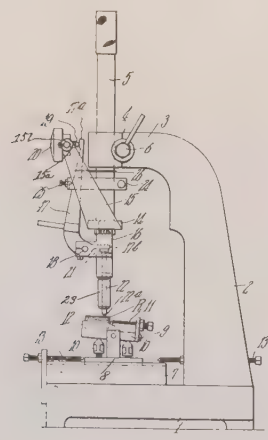
the arrangement of the washer-supporting pins, guide posts fixed in the same relation with the reserve stack pins as the formed guide posts bear to the washer-supporting pins, and a member guided in its operation by the guide posts for transferring the washers from the reserve stacks to the washer-supporting pins.

1,422,160. FURNACE CONSTRUCTION. WILBERT G. WISE, Akron, Ohio. Filed Dec. 5, 1921. Serial No. 519,507. 8 Claims. (Cl. 126-99.)



1. In a furnace construction having an inner and an outer casing, a stiffening member at the upper end of the inner casing, a register over the casings and formations on the register adapted to engage the member to hold the inner casing.

1,422,161. GAUGE. IRVIN FLINN WOODROW, Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Sept. 30, 1918. Serial No. 256,315. 20 Claims. (Cl. 33-147.)

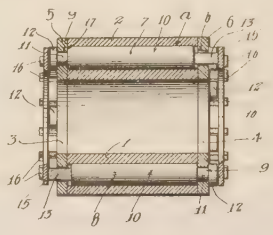


1. In a device of the character described, a base, a plate reciprocally mounted thereon, a holder pivotally mounted on said plate, and a contact element supported in position to engage an article carried by said holder.

1,422,162. ROLLER BEARING. OSWALD F. ZAHN, Los Angeles, Calif., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Calif., a Corporation of California. Filed July 15, 1920. Serial No. 396,432. 3 Claims. (Cl. 64-62.)

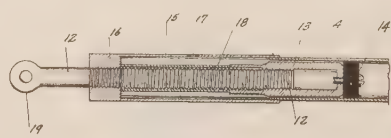
1. A roller bearing comprising spaced inner and outer bearing members, inner and outer thrust rings at the ends of the bearing members respectively, two sets of

rollers between the bearing members having annular grooves, the rings at one end engaging the grooves of only one set of rollers and the rings at the opposite end



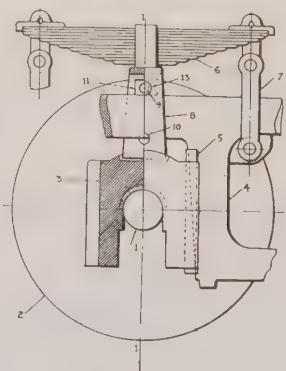
engaging the grooves of only the second set of rollers, and the rollers of one set being interposed between the rollers of the other set.

1,422,163. DOOR CHECK. PETER ZIMBELMANN, Aurora, Ill. Filed July 19, 1920. Serial No. 397,523. 4 Claims. (Cl. 16-84.)



1. A door check comprising a tubular housing; a threaded stem fitting into said housing; a piston adjustably threaded on said stem and operating in said housing; and a second housing mounted for movement with said stem and slidably fitting over said first mentioned housing, substantially as described.

1,422,164. FRAME SUPPORT. FRANK M. A'HEARN, Greenville, Pa. Filed Feb. 21, 1922. Serial No. 538,215. 6 Claims. (Cl. 105-82.)

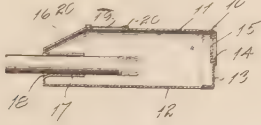


1. In a frame support, the combination of a frame; a saddle straddling the frame; a bearing box supporting the saddle, said saddle having perforated sides; a supporting block arranged between the legs of the saddle and operating against the frame and forming a support, said block having a perforation therethrough; and a pin extending through the perforations in the saddle and the block.

1,422,165. ASH RECEPTACLE. LEON APTOWICZ, Yonkers, N. Y. Filed July 20, 1921. Serial No. 486,220. 2 Claims. (Cl. 131-51.)

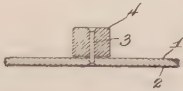
2. A device of the class described comprising, a hollow body, a flattened bottom wall for said body, a perforated end closure for the outer end of the body, a frusto-conical

member at the opposite end of the body, said frusto-conical member having an axial opening therein, a collar extending inwardly from the end wall of the frusto-conical member, and terminating in a plane with the inner end of the hollow body, said collar being in axial



alignment with the opening and being slightly enlarged near its outer end, the body having a window adjacent the frusto-conical member, guide at opposite ends of the window and a closure slidably mounted in the guides for closing the window.

1,422,166. PHONOGRAPH-RECORD BRUSH. EDWARD J. BAKULA, St. Louis, Mo. Filed Apr. 15, 1921. Serial No. 461,527. 1 Claim. (Cl. 15—210.)

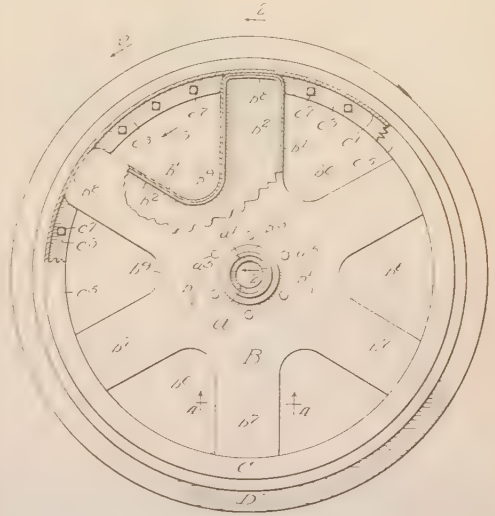


A phonograph record brush comprising a relatively thin disk of suitable diameter, a covering of fibrous material attached to the lower surface of the said disk and having its marginal edges secured to the peripheral edge of the said disk, the said material being stretched taut across the surface of the disk, a knob, a pivot pin carried by the disk and rigidly thereto, the said pivot pin being extended through a central opening in the said knob whereby the said disk may freely revolve with the said pivot pin while the knob is held stationary

1,422,167. WHEEL. GERALD G. BARRY, Chicago, Ill. Filed Dec. 9, 1918. Serial No. 265,934. 12 Claims. (Cl. 301—64.)

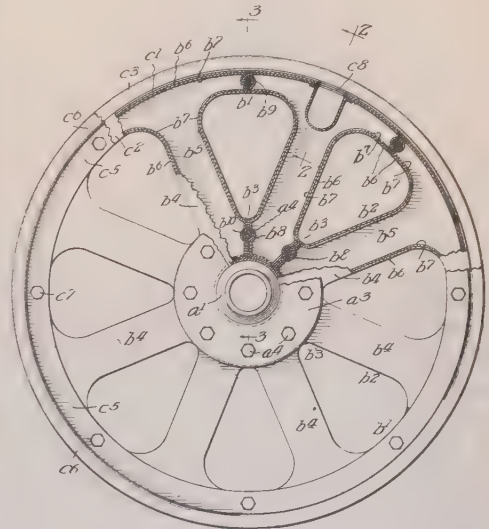
1. In a vehicle wheel, the combination of a suitable hub, a supporting spoke body between the hub and rim, said supporting body comprising a pair of sheet metal flanged body plate members as herein described telescoped together, each of said sheet metal body members being formed from a blank provided with a central opening adapted to receive a hub, the main body of each said member being provided with a flange around the outer edge thereof, in forming which outer flange each of said metal blanks having a corresponding circumferential series of portions removed therefrom, leaving a series of projecting spoke bars, and the outer flange being formed as an integral continuous one from and following around the main body of each said member as thus formed (including the ends and sides of the projecting spoke bars and connecting portions of the plate body between the spokes), the said outer flange on one of said members being formed so that the body size is such that the corresponding flange on the opposite member may be forced thereover and the said two members telescoped together, the said outer flanges of the two members when telescoped being directed toward each other and being of a width substantially corresponding to the space between the two main body plates, thus providing a double thickness of the metal around the outer telescoped edges of the assembled body, means for securing the telescoped main

body plates from disengagement at the central opening, means for securing the said telescoped body to the hub,



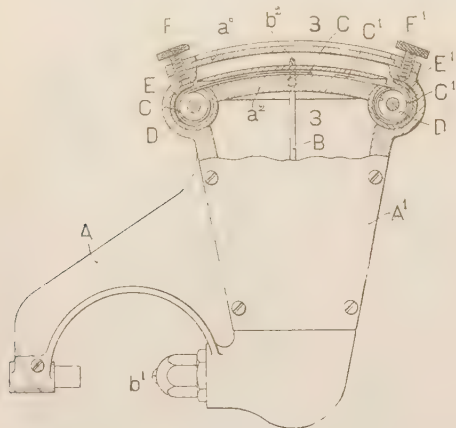
an annular rim mounted on the spoke ends, and means for securing the said rim member to the spoke ends, substantially as set forth.

1,422,168. METAL WHEEL. GERALD G. BARRY, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 416,887. 5 Claims. (Cl. 301—66.)



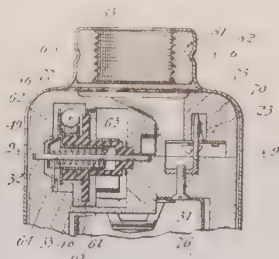
1. In a wheel, a nave, spoke and felly structure comprising a series of independent metal box units, each said unit consisting of a complementary pair of boxes having the outline and flanged substantially as shown, formed, telescoped and assembled substantially as set forth.

1,422,169. INDICATING-LEVER-LIMIT GAUGE. MAX BARTHOLDY, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed May 20, 1921. Serial No. 471,182. 3 Claims. (Cl. 33—147.)



1. In a gauge of the class described provided with a scale and a pointer cooperating therewith, a pair of steel strips adjustable relative to the scale, the ends of said strips defining a tolerance field and means for adjusting said strips and means for securing them in their adjusted position.

1,422,170. ELECTRICAL CONNECTOR DEVICE. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 19, 1917. Serial No. 207,841. 6 Claims. (Cl. 173—354.)

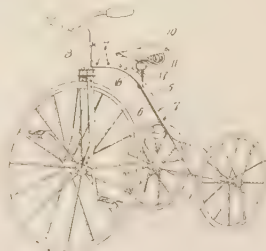


1. A switch mechanism comprising a rotatable insulating member, a switch contact supported thereby, a lever and pawl for actuating said rotatable member, and a ball-chain connected with said lever, said lever comprising a sheet-metal member having a portion lying in a plane substantially perpendicular to the axis of said rotatable member, and a portion lying in a plane substantially radially with respect to the axis of said rotatable member, said first portion having an opening therein large enough to permit the passage of one of the balls of the ball-chain, there being a slot leading from said opening to said second portion, not large enough to permit the passage of one of the balls but large enough to permit passage of the connection between the balls.

1,422,171. VELOCIPEDE. CLARENCE W. BENNETT, New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,262. 6 Claims. (Cl. 208—113.)

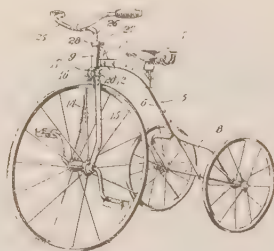
1. In a velocipede, a frame having side members, a seat post bracket having parts held between said side members

and a part projecting beyond said side members, said bracket at the point where it projects from the side mem-



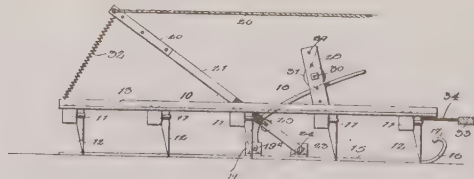
bers having its lower edges bearing directly on the upper edges of such side members, and a seat post adjustably held in the projecting portion of the bracket.

1,422,172. VELOCIPEDE. CLARENCE W. BENNETT, New York, N. Y. Filed Jan. 30, 1920. Serial No. 355,082. 2 Claims. (Cl. 208—102.)



1. In a velocipede, a frame and a tubular steering head carried thereby, a steering post journaled in said head, head plates secured in spaced relation on said post at a point below the steering head, a fork having side members extending up through said head plates, and a substantially U-shaped bracket inverted within said fork and having a base portion secured in engagement with the lower head plate and downwardly extending side arms secured to the side members of the fork.

1,422,173. HARROW. FRANK GRANVILLE BIGGERSTAFF, Kansas City, Mo. Filed Nov. 27, 1920. Serial No. 426,787. 7 Claims. (Cl. 55—34.)

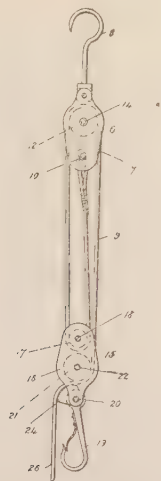


7. In a device of the character described for use with harrows, a runner, cooperable levers pivoted to said runner, and an abutment arranged upon the harrow and engaged with one of said levers.

1,422,174. HOISTING TACKLE. OTTO JOHN BOETTCHER, Chilton, Wis., assignor of two-fifths to Fred W. Maas and one-fifth to Geo. C. Hume, both of Chilton, Wis. Filed Dec. 9, 1921. Serial No. 521,180. 1 Claim. (Cl. 254—188.)

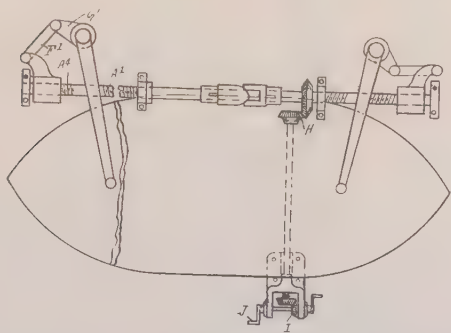
A tackle, comprising a block having a flat-faced roller journaled in it, a second block having two flat-faced roll-

ers arranged tandem and journaled in it, a cam-shaped sustaining catch provided with a double-eye which is pivoted in the second block in line with its two rollers, a lifting member pivoted between the two eyes of the said double-eye, said catch and lifting member being mounted



on the same pivot and being independently movable, and a flat operating strap which engages with said catch and passes over the said rollers and is secured at one end to the first said block, said catch operating to clamp the strap against one of the rollers of the said second block.

1,422,175. SHIP'S DAVIT. THOMAS JOHN CARR, Newcastle-upon-Tyne, England. Filed May 5, 1921. Serial No. 466,990. 1 Claim. (Cl. 9—22.)

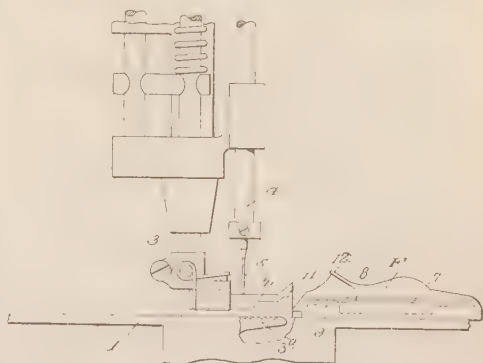


In mutually operated ships' davits, a screw-threaded shaft, screw-threaded sliding members carried thereon, a link joined to each of said members, and a crank pin-jointed to the corresponding link and fast on each davit at a different angle so that the linear motion of said sliding members produces differential rotary movement of the davits, and operating gear for said screw-threaded shaft.

1,422,176. FOLDER FOR SEWING MACHINES. JOHN E. CHALMAN, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 18, 1918. Serial No. 254,608. 3 Claims. (Cl. 112—147.)

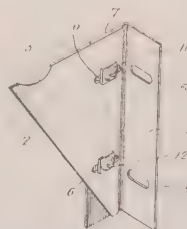
1. A folder for folding the edges of a strip underneath the body portion of the strip so that said edges will substantially meet centrally of the folded strip, said folder comprising a base, a tongue around which the strip is folded carried by said base and spaced therefrom, side walls projecting upwardly from said base, said side walls

being extended over the tongue and spaced from each other for a portion of the length of the tongue to permit the operator's finger to slide along the tongue for inserting the strip in the folder, said side walls being joined for a por-



tion of the length of the tongue and adjacent the delivery end of the folder, said joined side walls adjacent the spaced edges of the side walls being arched or raised to form a clearance space for the central portion of the strip as it is inserted into the folder.

1,422,177. WALL-RADIATOR BRACKET. GROVER C. CLANTON, Bayonne, N. J. Filed Aug. 3, 1921. Serial No. 489,449. 2 Claims. (Cl. 248—30.)

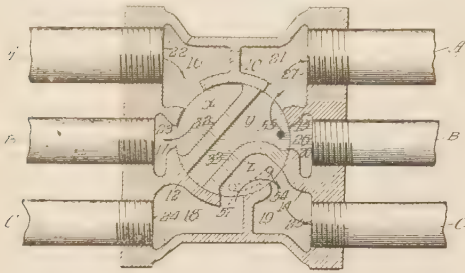


1. A radiator support, comprising a wall member formed of a pair of sheet metal flanges disposed at right-angles to each other and provided with a plurality of elongated slots, and a sheet metal member removably secured to one of said flanges and adapted to support a radiator, said last member being provided with elongated slots disposed at right-angles to and intersecting the slots of the flange to which it is secured, thereby to permit adjustment of the radiator in two directions, the slots of the remaining flange of the wall member being disposed so as to permit adjustment of the radiator in a third direction.

1,422,178. VALVE. ROSWELL P. COOLEY, Chicago, Ill., assignor to Vapor Car Heating Company, Inc., Chicago, Ill., a Corporation of New York. Original application filed May 11, 1918, Serial No. 233,905. Divided and this application filed Feb. 24, 1919. Serial No. 278,882. 12 Claims. (Cl. 251—105.)

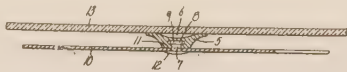
1. In a valve, the combination of a casing having a plurality of chambers, and a rotary valve member in said casing provided with a plurality of ports and adapted to be set to three different positions in which said ports put said chambers into communication with each other

in pairs, differently combined for each position of the valve member, said casing and valve member being pro-



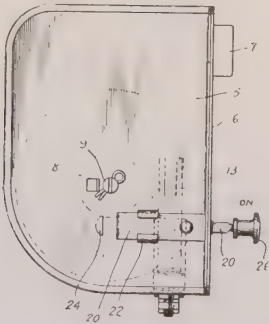
vided with drainage ports which come into register when said valve member is in certain of said positions.

1,422,179. TRAFFIC SIGNAL. JOHN D. COWARD, Newton Upper Falls, Mass. Filed Jan. 19, 1920. Serial No. 352,272. 8 Claims. (Cl. 116—35.)



1. A traffic signal for automobiles having, in combination, a transparent windshield, an indicator support positioned upon the rear of said windshield and a direction indicator of a length greater than its width rotatably mounted upon said support and projecting laterally of said support a substantial distance therebeyond, whereby said indicator may be visible through said windshield and visible and manually operable from the rear of said windshield.

1,422,180. ELECTRIC SWITCH FOR WINDING DRUMS. CHARLES H. CUNO, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 3, 1922. Serial No. 533,828. 7 Claims. (Cl. 200—153.)

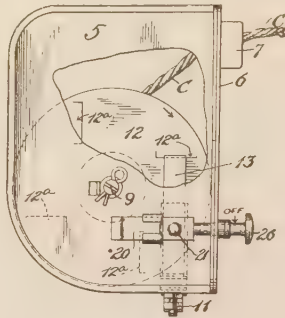


1. The combination of a casing, a winding drum therein having a conducting flange, a spring arm contact normally out of engagement therewith, and a manually operable slide adapted to force said spring arm contact into engagement with said flange.

1,422,181. ELECTRIC SWITCH AND STOP FOR WINDING DRUMS. CHARLES H. CUNO, Meriden, Conn., assignor to The Cuno Engineering Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 21, 1922. Serial No. 545,445. 3 Claims. (Cl. 200—153.)

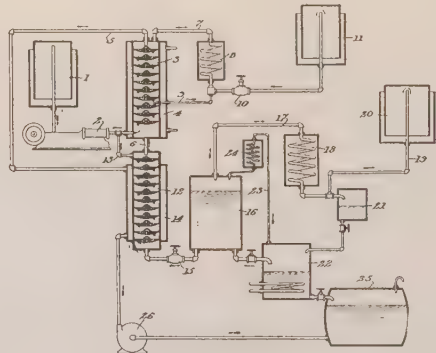
1. In a device of the character described, a self-rewinding drum, a cable carried thereby and in circuit therewith,

a circuit closer, means for manually operating the same and means cooperating with said circuit closer to lock



the drum against rewinding when the circuit closer is in the closed circuit position and leaving said drum free to rewind when the same is in the open circuit position.

1,422,182. TREATING GASEOUS HYDROCARBON MIXTURES. GEORGE O. CURME, Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed June 5, 1919. Serial No. 302,040. 2 Claims. (Cl. 260—170.)

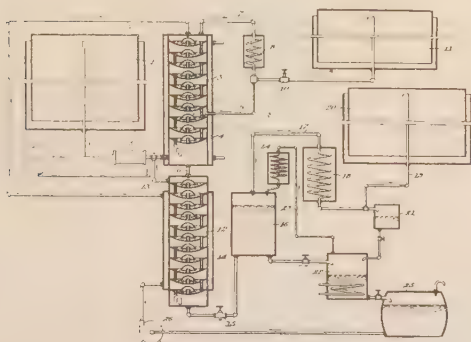


1. Process of separating and recovering a relatively soluble component from a gaseous hydrocarbon mixture, comprising compressing the mixture, passing the compressed mixture in contact with a suitable solvent maintained at a temperature below atmospheric, drawing off the gases from which the soluble component has been removed, progressively reducing the solvent power of the liquid to separate therefrom the less soluble gases, returning the gases thereby evolved into contact with portions of liquid having progressively increasing solvent power, and finally to the absorption system, releasing the pressure from the liquid containing the relatively soluble component, and separately recovering said component.

1,422,183. PROCESS OF TREATING GASEOUS MIXTURES. GEORGE O. CURME, Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed May 4, 1920. Serial No. 378,782. 5 Claims. (Cl. 260—172.)

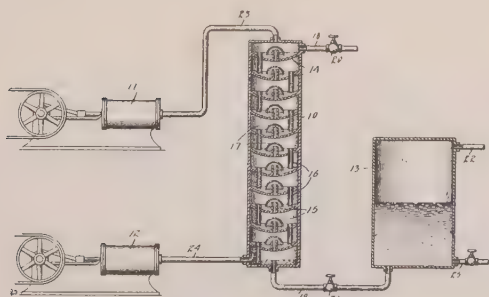
1. Process of separating and recovering a relatively soluble component from a gaseous mixture, comprising compressing the mixture; passing the compressed mixture

in contact with a suitable solvent; withdrawing the gases from which the soluble component has been removed; withdrawing the solvent from the absorption system; pro-



gressively separating from the solvent by a rectifying action the less soluble gases; returning the gases thereby evolved to the absorption system; and separately recovering the soluble component from the solvent.

1,422,184. PROCESS OF SEPARATING ETHYLENE AND OTHER COMPONENTS FROM GASEOUS MIXTURES CONTAINING THE SAME. GEORGE OLIVER CURME, Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y., a Corporation of Virginia. Filed Apr. 20, 1917, Serial No. 163,523. Renewed Dec. 1, 1920. Serial No. 427,659. 6 Claims. (Cl. 260—170.)

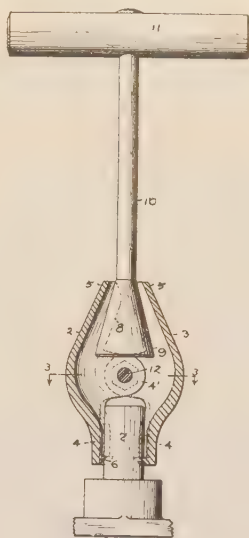


1. The process of separating ethylene from gaseous mixtures containing the same which consists in compressing the mixture, passing the gases thus compressed through a suitable solvent flowing counter to the gas stream, drawing off the gases free from the ethylene, then removing the pressure from the solvent containing the ethylene, and leading off the purified ethylene.

1,422,185. GRIPPING AND PULLING TOOL. HARRY DALITE, Cleveland, Ohio, assignor to J. C. Hipp, Cleveland, Ohio. Filed May 16, 1921. Serial No. 470,052. 3 Claims. (Cl. 29—84.)

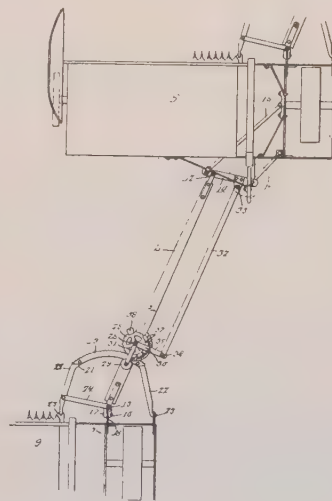
1. A gripping and pulling tool, comprising a pair of

pivoted clamping members having gripping jaws and opposed spreading portions of semi-circular cross section,



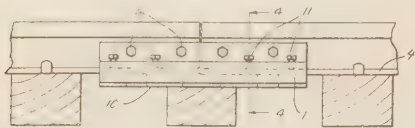
and a handle having a conical spreading member interposed and confined between said opposed portions.

1,422,186. COUPLING FOR TRAINS OF BINDERS, MOWERS, AND OTHER VEHICLES. CALVIN R. DAVIS, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed July 18, 1919. Serial No. 311,828. 5 Claims. (Cl. 280—33.8.)



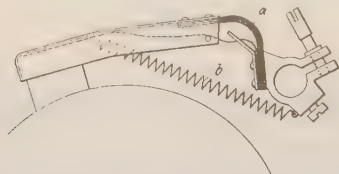
2. The combination with a front and rear vehicle, of a draft coupling therebetween comprising a segmental rack attached to the rear vehicle, a tongue pivotally connected at its front and rear ends with the front and rear vehicles respectively, a gear in mesh with the rack, means operative between the front vehicle and said gear for oscillating the latter when the front vehicle is turned, a roller engaging the back of the rack, and means connecting the roller and gear, holding them in associated relation with the tongue and preventing relative movement of said gear and rack lengthwise of the tongue.

- 1,422,187. FISHPLATE FOR RAILWAY RAILS. REIMER N. DITHMER, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 496,455. 1 Claim. (Cl. 238—193.)



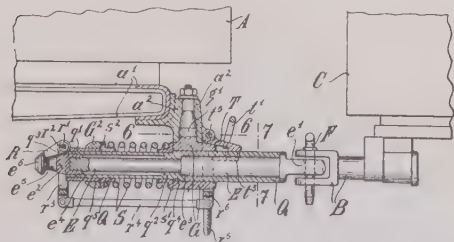
In a joint for rails comprising sections having slidably detachable interlocking bottoms and extending over and forming slots for flanges of said rails, said interlocking bottoms being thickened and together forming a rib adapted to prevent lateral movement of said joint; and means extending into said slots for adjustably engaging said flanges to prevent accidental detachment of said interlocking bottoms and to compensate for play in said slots.

- 1,422,188. BRUSH HOLDER FOR ELECTRIC MACHINES. ERNST DÖRFFEL, Bernburg, Germany. Filed Mar. 10, 1921. Serial No. 451,361. 3 Claims. (Cl. 171—324.)



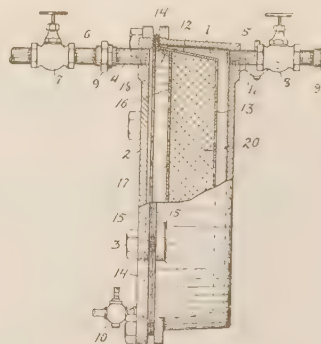
1. In an electric machine, a brush-holder, a supporting member, a yieldable blade-spring connecting the brush-holder to the supporting member and being approximately neutral in tendency with respect to the commutator so as to exert no appreciable pressure on the commutator and at the same time serve as a frictionless pivot, and a second spring for pressing the brush upon the commutator arranged in such manner that the torsional moment exerted by said second spring remains approximately constant in the entire range of wear of the brush, for the purposes set forth.

- 1,422,189. COUPLING MEMBER FOR VEHICLES. HEINRICH ECKERTZ, Essen-Rellinghausen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 7, 1920. Serial No. 408,747. 12 Claims. (Cl. 213—67.)



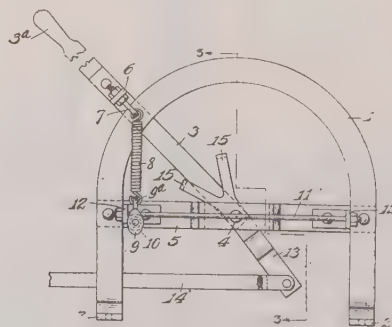
1. A coupling for vehicles comprising in combination a guide pivotally mounted on a vertical axis, a coupling rod longitudinally movable in the guide, means for locking the rod against longitudinal movement and the rod and guide against angular movement, means for releasing the locking means to permit longitudinal movement of the rod and angular movement of the rod and guide, the locking means becoming operative automatically upon a predetermined movement of the rod relative to said guide.

- 1,422,190. FILTER. MILTON ELROD, Indianapolis, Ind., assignor to Warriner Manufacturing Company, a Corporation of Indiana. Filed Feb. 23, 1921. Serial No. 447,059. 4 Claims. (Cl. 210—131.)



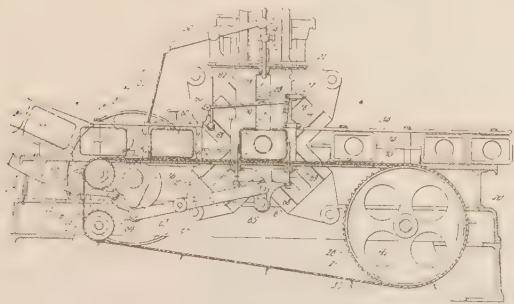
1. In a filter for a water distributing system, a case comprising a shell and head for closing same, having a drain cock communicating with its interior at the bottom thereof through the head, and a test cock having communication with its interior at the top thereof through the shell, and having an inlet pipe communicating with the interior of the case at the top thereof through the head and an outlet pipe communicating with its interior at the top thereof through the shell, said pipes being adapted to be connected in line with the supply pipe of the water distributing system; a cartridge having a radial flange at one end adapted to be clamped between the head and shell, and having a series of perforations in its opposite end and a removable perforated lid situated in its front end; and a filtering medium held compactly within the cartridge and covering all the perforations in the pan and lid.

- 1,422,191. RAILWAY-SWITCH STAND. LUIGI FACCIUTO, Sr., Flushing, Ohio, assignor of one-third to Louis Facciuto, Jr., Lansing, Ohio, and one-third to Frank C. Leon, Flushing, Ohio. Filed Apr. 4, 1922. Serial No. 549,490. 5 Claims. (Cl. 246—410.)



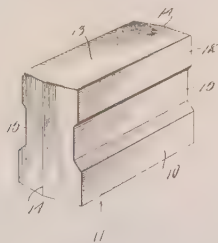
1. A switch stand comprising a pair of parallel frame members of arch form relatively positioned to form an intermediate passageway, bars disposed horizontally between the upright portions of said members, an operating lever pivotally mounted on said bars and having connection with the switch shifting bridge, said lever being movable along said passageway, retractile coil springs attached to and depending from said lever, pulleys suspended by said springs, and horizontal trackways beneath which said pulleys travel in shifting movement of said lever.

1,422,192. CAN-BODY-ENDING MACHINE. THEODORE F. FITZSIMONS, Stanmore, near Sydney, New South Wales, Australia. Filed July 2, 1919. Serial No. 308,189. 9 Claims. (Cl. 113—18.)



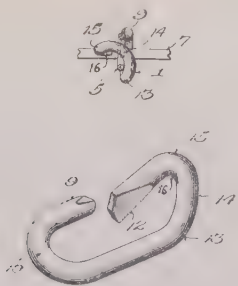
1. In a can ending machine of the type herein described, provided with a race-way, the combination with an anvil, a laterally movable header body supporting said anvil, of a normally retired stripper plunger, a trip pawl arranged to hold the stripper outward until the retiring movement of the header body is nearing completion and thereupon to release the stripper and so leave the completed can centered in the race-way.

1,422,193. PAVING BLOCK. CHARLES L. SULLIVAN, Chicago, Ill., and JOHN D. FLETCHER, Evansville, Ind. Filed May 8, 1920. Serial No. 379,816. 4 Claims. (Cl. 94—11.)



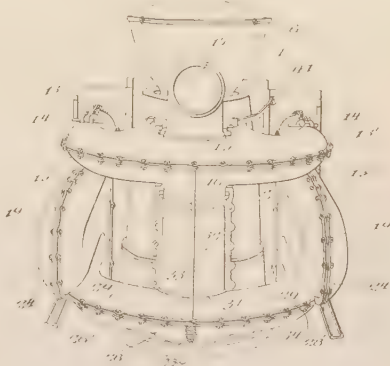
1. A paving block comprising a base and a tread portion, the said tread portion being narrower than the said base portion, and provided with an intervening longitudinally disposed furrow and with central extensions from opposite ends of the block.

1,422,194. DRAFT COUPLING. EDWARD FOWLER and JOHN V. LEWIS, St. Elmo, Tenn. Filed Feb. 21, 1919. Serial No. 278,554. 5 Claims. Cl. 97—4.)



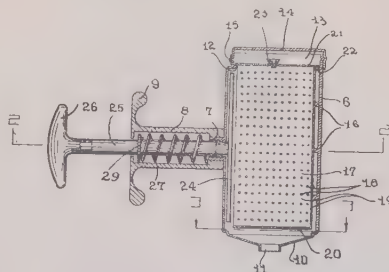
1. A draft element having at one end an elongated bearing section lying perpendicular to the axis of draft and bent to form a plurality of seating sections arranged at angles to each other and lying in the same plane.

1,422,195. STOVE AND FURNACE. JOHN B. GOHMANN, Lincoln, Nebr. Filed Apr. 20, 1921. Serial No. 462,953. 2 Claims. (Cl. 126—107.)



1. In a stove or furnace, in combination with a combustion chamber having a rear smoke outlet at the top, a smoke receiving and distributing head having an inlet connection intermediate its ends with said outlet, and provided with end branches extending forwardly along opposite sides of the combustion chamber, said head also having a smoke outlet, a smoke collecting head behind the combustion chamber and having end branches extending forwardly along opposite sides of the combustion chamber, said collecting head and its branches being located below the first-mentioned head and its branches, a pipe extending vertically between said heads and establishing a connection therebetween intermediate their ends, a series of connected flues located adjacent to each side of the combustion chamber, the series of flues on one side being connected to and establishing communication between one of the forward ends of the branches of the aforesaid heads, and the series of flues on the other side being connected to and establishing communication between the forward ends of the other branches of the heads, and means for establishing a direct connection between the smoke outlet of the combustion chamber and the smoke outlet of the first-mentioned head, said means being adjustable to break said direct connection.

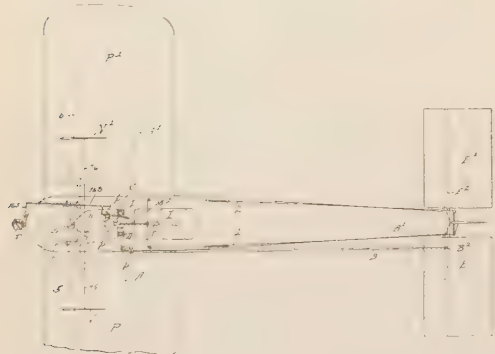
1,422,196. LEMON SQUEEZER. WILLIAM E. GRAY, Chicago, Ill. Filed Nov. 13, 1920. Serial No. 423,769. 7 Claims. (Cl. 100—41.)



1. In a device of the class described, a casing containing a perforated container having an open side, a pressure plate in said casing adapted to enter said open side, and thumb means to operate said pressure plate.

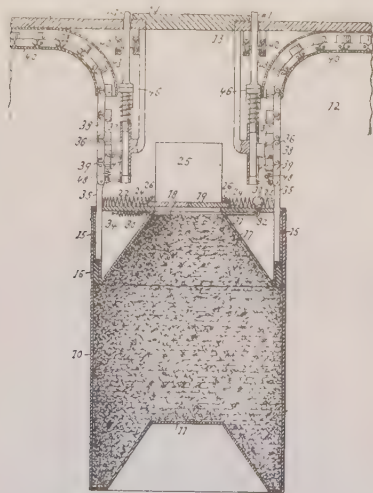
3. In a device of the class described, a casing containing a perforated container having an open side, pressure means in said casing adapted to enter said open side, means protruding from said casing to operate said pressure means, and a spring to retract said pressure means from said container.

1,422,197. AEROPLANE. OTTO W. GREENE, Elyria, Ohio, assignor to The Greene Aeronautical Company, Elyria, Ohio, a Corporation of Ohio. Filed Mar. 27, 1914. Serial No. 827,532. 30 Claims. (Cl. 244—29.)



16. In a flying machine, the combination of a vertical rudder, mechanism for automatically maintaining the machine in balance, including a directional air-actuated vane independent of the rudder for automatically causing said mechanism to initiate the banking operation to balance the machine to the disturbance of balance caused by the deflection of the rudder.

1,422,198. ICE-CREAM-DISPENSING MACHINE. WILLIAM J. GUERIN, Brooklyn, N. Y. Filed Dec. 6, 1921. Serial No. 520,219. 9 Claims. (Cl. 226—128.)

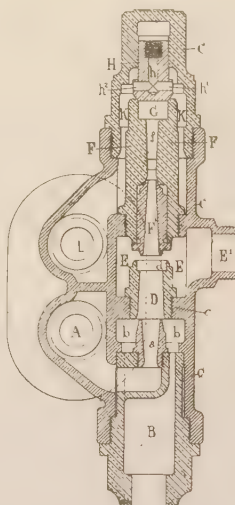


1. In a dispensing machine the combination with a plunger having an opening, of slides arranged to normally close the opening, and means controlled by a container for actuating the slides.

1,422,199. SELF-STARTING INJECTOR FOR STEAM BOILERS. JOSEPH HALL, Stockport, England. Filed Nov. 13, 1919. Serial No. 337,757. 1 Claim. (Cl. 162—1.)

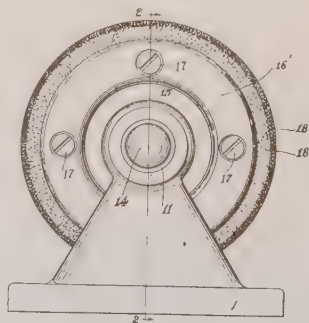
In a self-starting injector for steam boilers, the combination with a steam nozzle and lifting cone for raising water into the injector for starting and restarting automatically of a sliding cone placed above the lifting cone

to create a partial vacuum in the overflow chamber, a delivery cone, a liquid pressure chamber at the delivery



orifice of the delivery cone to facilitate starting and restarting of the injector, and a valve controlled by the pressure of the boiler closing said pressure chamber.

1,422,200. GRINDING WHEEL. HARRY E. HARRIS, Bridgeport, Conn. Filed Apr. 14, 1919. Serial No. 289,963. 3 Claims. (Cl. 51—206.)

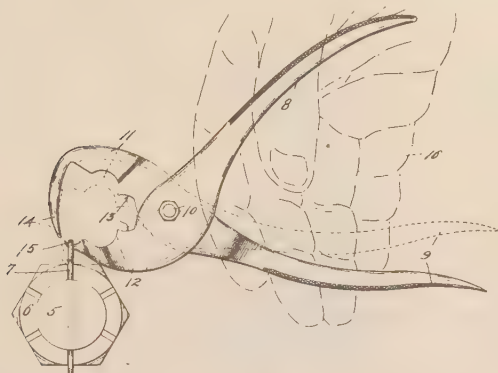


1. A grinding device comprising a gyro wheel having a wide, substantially flat, heavy periphery composed of two sections substantially equal in mass, one of said sections having a peripheral recess, a ring of abrasive material mounted in said recess, and means to clamp the other of said sections against said ring and ring holding section.

1,422,201. COTTER-PIN PULLER. MARION H. HARTE, Minneapolis, Minn. Filed Dec. 6, 1920. Serial No. 428,462. 3 Claims. (Cl. 29—86.2.)

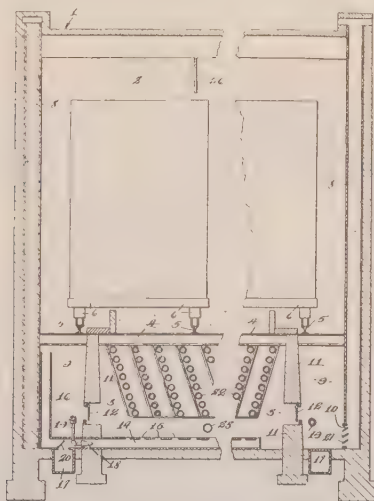
1. A cotter pin puller comprising a pair of jaw-equipped pivotally connected handles, one of the jaws having a

supporting finger offset toward the other jaw, said other jaw having a tooth adapted to enter the eye of a cotter



pin and to move close to the inner face of the supporting finger and in the plane thereof.

1,422,202. DRY KILN. NELSON H. HENDERSON and HIRAM L. HENDERSON, Syracuse, N. Y. Filed May 14, 1921. Serial No. 469,601. 30 Claims. (Cl. 34-46.)

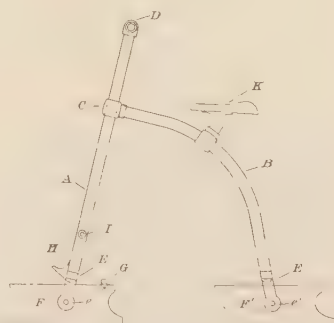


19. A dry kiln having a drying room in the upper portion thereof, and a heating chamber below the central part of the drying room and circulating chambers at opposite sides of the former chamber, such chambers opening into the bottom of the drying room, automatic pressure operated dampers in the partitions between the circulating chambers and the heating chamber, chimneys communicating with the circulating chambers, air ducts communicating respectively with the circulating chambers and with the outside air and having outlets into the heating chamber, and a steam injector in the ducts between the inlets and outlets thereof, and means for controlling the flow through the inlets of the ducts, and means for controlling the flow through the chimneys, substantially as and for the purpose described.

1,422,203. GLIDING COASTER. ARTHUR H. HEATZMAN, Baltimore, Md., assignor to The A. H. Heatzman Company, a Corporation of Oklahoma. Filed June 2, 1920. Serial No. 385,893. 4 Claims. (Cl. 188-8.)

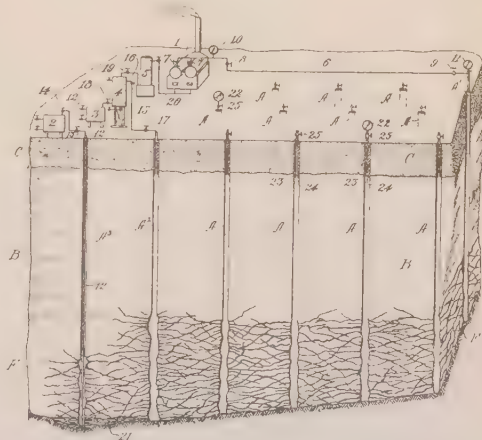
1. A device for coasting constituting a frame having front and rear surface bearings, a foot rest G attached

to and cooperating with the front surface bearing for creating increased friction between the said bearing and



the surface incline for the purpose of diminishing the speed of the device.

1,422,204. METHOD FOR WORKING OIL SHALES. WILSON W. HOOVER and THOMAS E. BROWN, New York, N. Y. Filed Dec. 19, 1919. Serial No. 346,069. 1 Claim. (Cl. 262-3.)

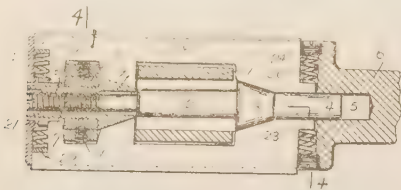


The hereinbefore described method of working oil shales which consists in gaining access to a determinate zone of any desired area, in a sub-surface deposit of oil shale, by drilling a group of contiguous wells, suitable in number, proximity and depth for the purposes herein-after set forth, in the introduction, through the wells, into such zone, of charges of explosives, in exploding the same, in thereby so fracturing the formation in such zone as to produce a series of intercommunicating fractures throughout the zone which shall render the same permeable to a heating medium, in introducing a heating medium into the zone of fracture through a member of the group of wells, all wells not required for the treatment of material and recovery of products being first securely sealed, in circulating the heating medium through said zone, in treating the bituminous material therewith, in thereby converting such material into oil and in recovering the products through other members of the group.

1,422,205. EXPANDING REAMER. JOHN JULIUS JASPERSON, Randwick, near Sydney, New South Wales, Australia. Filed July 19, 1920. Serial No. 397,223. 5 Claims. (Cl. 77-76.)

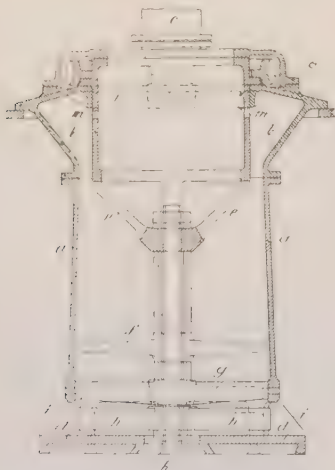
1. An expanding reamer comprising a shank with a body, a rotatable spindle arranged in the body and hav-

ing a conical shoulder at one end and screw-threaded at the other end, a rotatable screw-threaded sleeve supporting the threaded end of said spindle and having a conical shoulder, a tapped collar detachably secured on the interior of said body within which said sleeve is mounted, a plurality of cutter blades adapted to be mounted within



recesses in said body and to be expanded radially outward from the circumference thereof by rotating said spindle and sleeve, springs mounted within said body and engaging the front and rear ends of said cutter blades to position them within said body, an end cover plate for said body, and backing plates for said blades detachably affixed to said body.

1,422,206. COKING CHAMBER FOR GENERATORS. PAUL JAWORSKI, Bismarckhutte, Upper Silesia. Filed Aug. 26, 1921. Serial No. 495,563. 5 Claims. (Cl. 48--73.)



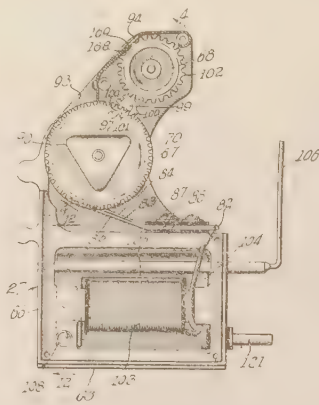
1. A coking chamber for generators comprising a casing, a feed hopper for the casing and a plate spaced from and below the lower end of said casing for supporting the contents thereof, the annular space thereby formed serving as an unrestricted inlet for the generator gases and as a discharge orifice for the coked material.

1,422,207. INDICATING AND RECORDING APPARATUS. AUSTIN C. JOHNSON, Chicago, Ill., assignor to Production Meter Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 6, 1918. Serial No. 265,544. 41 Claims. (Cl. 234--1.5.)

1. In apparatus of the character described, the combination with indicating mechanism comprising a revoluble element, of driving mechanism therefor comprising a continuously driven member adapted to be operatively connected with said revoluble element and normally engaging said member to minimize lost motion in said connection with a sliding contact, and means adapted to be controlled by the machine the performance of which said apparatus indicates, for effecting said operative connection between said revoluble element and said continuously driven member.

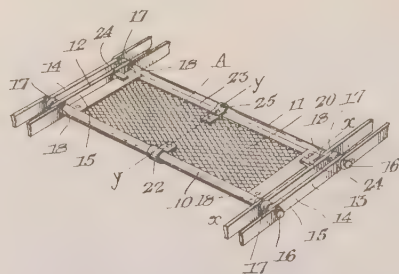
33. In apparatus of the character described, the combination with time operated indicating mechanism for in-

dicating the total active time period of a machine performing a series of active operations, and means controlled by the operation of the machine, the performance



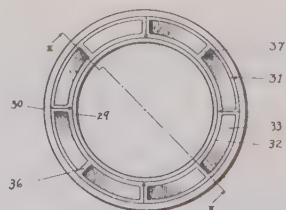
of which is being indicated, for giving a visual indication of the total active operations of said machine during the total time period indicated by said time operated indicating mechanism.

1,422,208. CONVEYER BELT. JAMES NIXON KENNY, Ottawa, Ontario, Canada. Filed Jan. 13, 1921. Serial No. 436,932. 5 Claims. (Cl. 198--194.)



1. A conveyer section comprising tubular side members, end members connected to the side members, means for pivotally connecting adjacent sections, one of the side members having a longitudinal slot therein and a supporting member located in the centre of the section extending into the slot in the side member, and a clip on the said supporting member extending over the opposite side member to that having a slot therein.

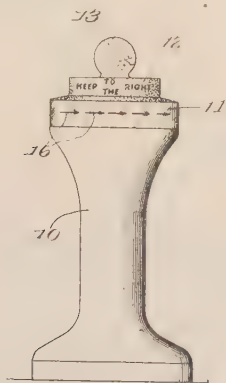
1,422,209. APPARATUS FOR VULCANIZING ARTICLES OF RUBBER OR RUBBERIZED FABRIC. PETER J. KNAUS, Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1919. Serial No. 271,214. 16 Claims. (Cl. 18--17.)



1. In an apparatus of the class described, a vulcanizing chamber, a plurality of units, the parts of adjacent units being provided with inclined mating surfaces

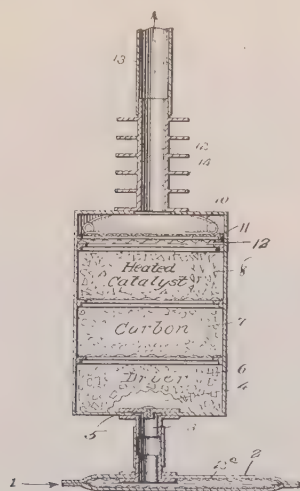
and forming molds for the reception of tire treads, means for simultaneously exerting pressure upon the units whereby radial pressure is communicated to the several treads during the process of vulcanization.

1,422,210. TRAFFIC SIGNAL. WELLINGTON A. KOCH, Plainfield, N. J. Filed Oct. 10, 1921. Serial No. 506,664. 4 Claims. (Cl. 116-63.)



2. A traffic signal including a post, a stationary illuminated, direction legend on the post, and a constantly moving signal associated with the legend in its direction designation.

1,422,211. METHOD AND APPARATUS FOR TREATING GASES AND GASEOUS SUBSTANCES. ARTHUR B. LAMB, Washington, D. C. Filed May 31, 1919. Serial No. 301,017. 43 Claims. (Cl. 183-48.)

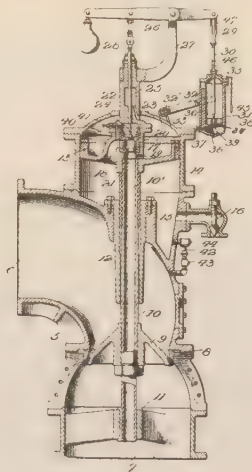


33. In a process of treating gases, passing said gases through drying material, then through a sorbent, then through a sorbent material containing sorbent, oxidizing catalyst.

1,422,212. GOVERNOR-OPERATED PRESSURE REGULATOR. CHESTER W. LARNER, Cleveland, Ohio. Filed July 24, 1917. Serial No. 182,402. 8 Claims. (Cl. 137-53.)

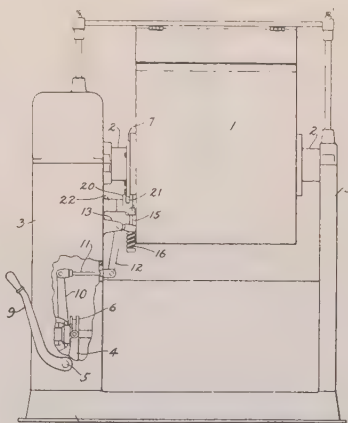
8. A pressure regulating system of the type recited, comprising the combination of a penstock, a single acting piston and its operating cylinder, a valved connection for supplying penstock pressure to the space below the piston, a main valve carried by the piston rod and ar-

ranged to be seated in response to penstock pressure on the piston, and a governor-operated differential waste



valve in the piston head for relieving the pressure in the cylinder and opening the main valve.

1,422,213. SAFETY CLUTCH DEVICE FOR MIXERS. FRANK X. LAUTERBUR, Sidney, Ohio. Filed May 1, 1922. Serial No. 557,628. 6 Claims. (Cl. 259-1.)

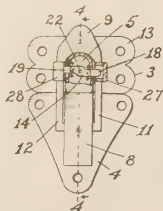


1. In combination, in machines of the character described, a bowl adapted to tip to dump the contents, a clutch for coupling power to mixing means within the bowl, and resilient means under the control of the bowl to throw out the clutch upon a tipping movement of said bowl, and means independent of the bowl for operating the clutch.

1,422,214. COMBINATION CLASP AND LOCK. MORITZ LEIBOVITZ, Lorain, Ohio. Filed Apr. 16, 1921. Serial No. 461,747. 5 Claims. (Cl. 70-115.)

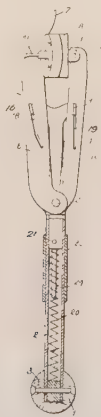
5. A combination clasp and lock, comprising a fixed member, a pivotally supported hasp, the fixed member having a raised hollow portion, the hasp being adapted to swing over the raised hollow portion of the fixed member, a rotatably mounted block arranged within the hollow portion of the fixed member, arms pivoted to the

block, the walls of the hollow portion of the fixed member being provided with slots for said arms to permit them to slide over said hasp, a post extending from the block,



a key for fitting the post, and the wall of the hollow portion of the fixed member being provided with a hole for admitting the key, substantially as described.

1,422,215. AUTOMATICALLY CLAMPING TONGS FOR GRASPING PLATES AND DISHES. RENÉ ALFRED JEAMMET-LEYRIT, Billancourt, near Paris, France. Filed Oct. 22, 1920. Serial No. 418,808. 1 Claim. (Cl. 294—115.)

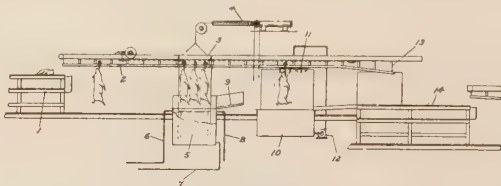


Automatically clamping tongs for grasping plates and dishes, characterized by a handle provided with a tube supporting a fixed arm, to the end of which is hinged a buffer coated with plastic material, upon which fixed arm is pivoted a movable arm provided with two buffers and with a fore-nose for initially lifting up the plates and dishes, on one side, said movable arm being acted upon by a slide by means of lugs working into slots, which slide is constantly pushed backwards by a spring and may be actuated through the medium of a handle, said buffers being pivoted upon the arms, so as to be able to assume any suitable position.

1,422,216. SYNTHETIC JEWEL BEARING. TAINÉ G. McDUGAL and SAMUEL J. McDOWELL, Flint, Mich., assignors to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 14, 1920. Serial No. 351,438. 9 Claims. (Cl. 49—77.)

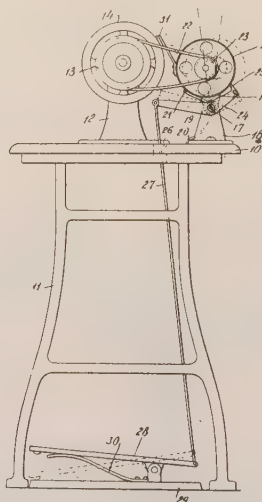
6. The process of manufacturing a synthetic jewel bearing or the like, which consists in forming a plurality of batches of ingredients which, when fused, form glass of high viscosity, one of said batches having a higher fusing point than the other, compressing from material of the batch of relatively high fusion point a body for the bearing, compressing additional material from the other batch with said body to form a facing, fusing said bearing while supported on powdered material to which it will not adhere when fused, and annealing said fused bearing.

1,422,217. METHOD OF SINGEING HOGS. ROBERT DAWSON MACLAURIN, Toronto, Ontario, Canada. Filed Oct. 1, 1921. Serial No. 504,688. 7 Claims. (Cl. 17—7.)



1. A method of singeing hogs which consists in dipping the hog into heated liquid capable of causing the gelatinous proteins to condense and polymerize with the consequent diminution of the water in the skin.

1,422,218. MOTOR DRIVE FOR SEWING MACHINES. HYMAN MAIMIN, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,799. 14 Claims. (Cl. 192—11.)

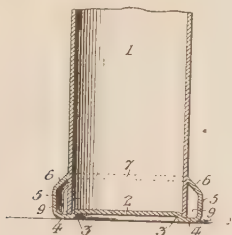


2. In a sewing machine provided with a driving wheel, the combination of a motor mounted to swing about an axis adjacent to the wheel, a spring for holding the motor in operative relation to the wheel of the machine, and means for taking the motor out of operative relation to the wheel of the machine and having a lost motion connection with the motor to permit the latter to assume its operative relation to the wheel of the machine unaffected by said means.

6. In a sewing machine provided with a driving wheel, the combination of a supporting member positioned adjacent to the driving wheel, a motor pivotally mounted on the supporting member, a spring for holding the motor in operative relation to the wheel of the machine, a swinging member, a lost motion connection between the motor and the swinging member, means for actuating the swinging member to overcome the effect of the spring and move the motor out of operative relation to the driving wheel of the machine, said means being adapted to be overcome by the operator to release the connection sufficiently to permit the motor to be held in operative relation to the driving wheel of the machine by the spring independently of the effect of the actuating means.

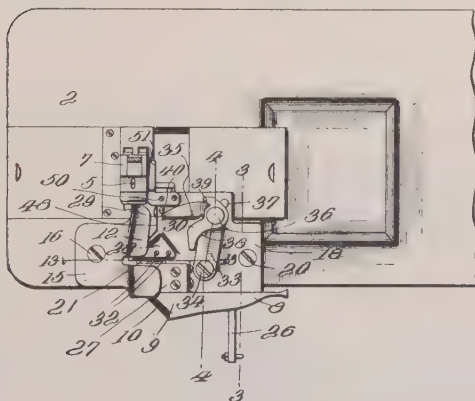
9. The combination as claimed in claim 2, in combination with braking means attached to the motor for acting on the driving wheel of the machine for stopping said driving wheel when the motor is out of operative relation with the driving wheel.

1,422,219. MUNITION CASING. VICTOR MAUCK, Norristown, Pa. Filed May 16, 1918. Serial No. 234,952. 5 Claims. (Cl. 220—66.)



1. In a munition casing, the combination with a cylindrical, tubular shell; of a base member for said casing, formed of a single piece of pressed sheet metal, forming a closure for said shell, including an annular shoulder fitted to the interior of said shell and formed by an inwardly recessed portion of said base member coextensive with the cross sectional area of said shell; said base member being thus recessed to substantially the thickness of the metal thereof; said base member presenting an annular plane pedestal support, extending at right angles to the axis of said casing, exterior to said shell and larger than the latter, and having a peripheral cylindrical flange extending in spaced relation with the outer circumference of said shell and presenting a precisely dimensioned "stowage diameter"; the upper edge of said base member forming a truncated cone, inwardly converged into contact with said shell; and means uniting said base member to said shell, solely at the upper edge of the former, and remote from the recessed portion of said base member, including an autogeneously welded solderless seam; said shell and said base member forming between them a hermetically sealed air chamber, of substantial size, exterior to said shell.

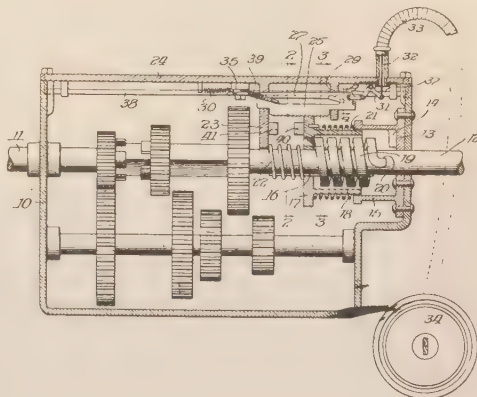
1,422,220. SEWING MACHINE FOR APPLYING BUT-TON STAY STRIPS. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 3, 1920. Serial No. 356,101. 15 Claims. (Cl. 112—2.)



14. The combination with means for directing a strip, a folding finger adapted to swing over said strip and over which the end of the strip may be folded, a turning finger holding the end of the strip over the folding finger, an arm carrying said folding finger, means for oscillating the arm, said turning finger being mounted on said arm, and spaced stops adapted to engage the turning finger at the extremes of movement of the arm for swinging the same relative to the folding finger to fold the end of the strip and for bringing said turning finger back to inoperative position, a vertical shaft carrying said arm, a spring for swinging said

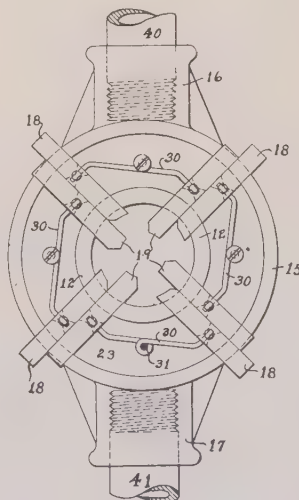
shaft for holding the folding finger in inoperative position, and manually controlled means for oscillating the shaft to move said folding finger and turning finger into operative position for folding the end of the strip.

1,422,221. AUTOMOBILE LOCK. CHARLES F. MURRAY, Evanston, Ill. Filed May 22, 1917, Serial No. 170,124. Renewed Oct. 2, 1920. Serial No. 414,338. 11 Claims. (Cl. 188—31.)



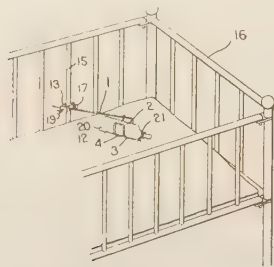
1. In a vehicle lock, the combination of a casing, a shaft, a clutch member in the form of a spring mounted in the casing and adapted to arrest the rotation of said shaft without material shock, said spring being normally in inoperative position and means for moving said spring into clutching position in consonance with the rotation of the shaft and after a predetermined number of rotations of the shaft, substantially as described.

1,422,222. DIESTOCK. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed June 25, 1920. Serial No. 391,716. 19 Claims. (Cl. 10—122.)



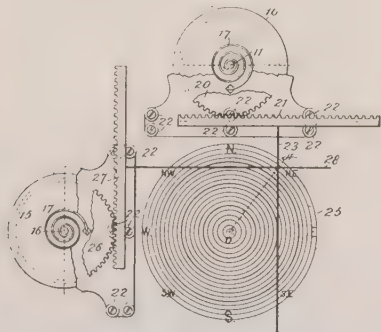
10. In a die stock, the combination with a frame, of a cam plate mounted thereon and having grooves therein, chasers mounted in said frame, projecting members on said chasers for engaging the grooves in said cam plate, said grooves comprising a set of active grooves and a set of rest grooves, one of said sets surrounding the other, and the two sets being connected at spaced points by transfer grooves.

- 1,422,223. NURSING-BOTTLE HOLDER. JOAN C. PHILIPS, Wellesley Hills, Mass. Filed June 6, 1921. Serial No. 475,561. 1 Claim. (Cl. 248—65.)



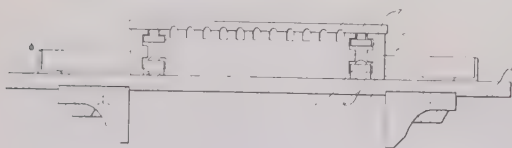
A nursing bottle holder made from a length of wire, one portion of which constitutes a stem, said wire being bent to form a U-shaped bottle-holding portion having one arm integrally connected with the stem, a bridge portion extending rearward from the other arm of said bottle-holding portion substantially parallel to the stem, and a second U-shaped bottle-holding portion at the end of the bridge portion, the two bottle-holding portions being in parallel relation, the free end of said last mentioned U-shaped portion having a hook or stop formed thereon adapted to contact with the stem.

- 1,422,224. SPEED INDICATOR FOR AEROPLANES. ARTHUR F. POOLE, Kenilworth, Ill. Filed May 31, 1918. Serial No. 237,585. 2 Claims. (Cl. 175—183.)



1. The method of determining the speed of travel of navigable vehicles through a non-conducting medium, said method consisting in associating with said vehicle a part capable of being influenced by the earth's magnetic field and moving said part through said magnetic field, whereby the part will be variably shifted by the influence exerted thereon by the magnetic field to give indications.

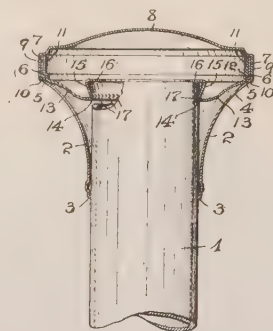
- 1,422,225. OIL PRESS. GEORGE A. SAUER, Dayton, Ohio, assignor to Buckeye Iron & Brass Works, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 10, 1921. Serial No. 436,152. 3 Claims. (Cl. 100—54.)



3. In a press, a plate, a pair of members disposed respectively on either side of said plate at one end thereof with an overhanging shoulder on one end thereof spaced from the face of the plate, a rack, a T-shaped

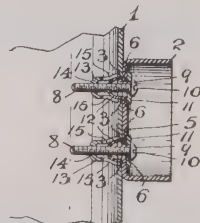
aperture on either side of the end of said rack adapted to slidably engage with said members mounted on the plate respectively, second T-shaped apertures in said end of said rack recessed in said rack, a mat, depending T-shaped lugs detachably secured on either side of the bottom of said mat adapted to slide in said second T-shaped apertures in the rack, a pair of bolts at the other end of said plate threaded therein and carrying between the head of each bolt and the plate, an L-shaped member having a projecting finger thereon, a detachably depending eye on either side of the bottom of the mat adapted to engage with said fingers, whereby the plate, rack and mat may be assembled as a unit.

- 1,422,226. MOUNTING NAPS OR CAPS FOR POSTS, POLES, OR RODS. ABRAHAM J. SCHULTZ, Newark, N. J., assignor to Colonial Stamping Company, Inc., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,434. 6 Claims. (Cl. 5—4.)



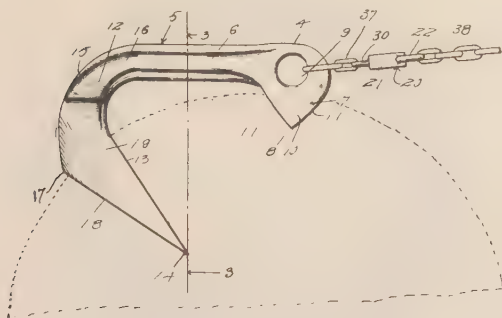
1. In combination with an element, as a metal bed-post, rod or pole, an ornamental nap, and an interiorly disposed seating element provided with a central open portion, said seating element having a stop-member surrounding said opening and provided with a chambered portion for the reception of the end-portion of said post, rod or pole, said chambered portion comprising an annular wall, and a multiplicity of biting serrations connected with and extending from said wall, said serrations being adapted to be forced into holding engagement with said post, rod or pole, when the end-portion of the same is inserted in the chambered portion of said stop-member.

- 1,422,227. EXPANSIBLE ATTACHING MEANS FOR CONNECTING TUBULAR ELEMENTS. ABRAHAM J. SCHULTZ, Newark, N. J. Filed Aug. 13, 1921. Serial No. 492,074. 5 Claims. (Cl. 5—4.)



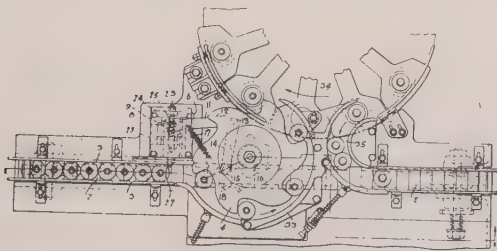
1. In an attachment of the character set forth, in combination with a main tubular element provided with a perforation, a receiving-cap or ferrule adapted to be attached to said tubular element, said cap or ferrule being also provided with a perforation, a tightening bolt extending through said perforations, and an expansion-element mounted upon said bolt and adapted to be tightened against the inner surface of said main tubular element when the said bolt is actuated.

1,422,228. LOGGING HOOK. PATRICK H. SHAFFER, Richwood, W. Va., assignor of one-half to Wellington L. Thomas, Richwood, W. Va. Filed Apr. 14, 1920. Serial No. 373,872. 1 Claim. (Cl. 294-82.)



A logging hook consisting of a many-sided shank, one end of said shank being enlarged and formed into a spur, said spur having an opening, the opposite end portion of the shank being curved back toward the first mentioned end portion to provide a substantially V-shaped hook, the last mentioned end portion adjacent the curved portion of the shank forming the bill of the hook, the back of said bill tapering laterally and longitudinally from the extremity of said bill and the junction of the bill with the shank to a portion centrally of the bill, the sides of said bill being canted inwardly toward said central portion and coacting with the tapering back portions to provide a spur, said spur being spaced from the bight portion of the V-shaped hook, the extremity of the bill being disposed substantially opposite and in alignment with the extremity of the first mentioned spur.

1,422,229. FEEDING MECHANISM. JOHN SHARP, Oakmont, Pa., assignor to Aluminum Seal Company, New Kensington, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1921. Serial No. 459,665. 4 Claims. (Cl. 198-34.)

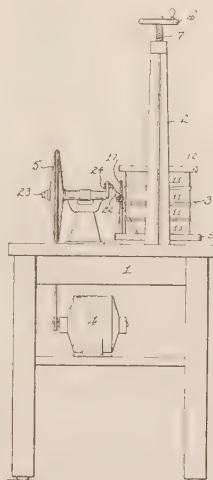


2. In a feeding device, the combination with conveying mechanism, of a spring actuated trip-arm in the path of the article, a spring-actuated slide on which said trip-arm is mounted, a slide member in which said slide is mounted, means on said trip-arm adapted to engage said slide member, a star-wheel, a cam on said star-wheel, and connections between said slide member and said cam for reciprocating said slide member.

1,422,230. SIEVE SHAKER. BOZO STANKOVICH, San Francisco, Calif. Filed Dec. 3, 1921. Serial No. 519,604. 4 Claims. (Cl. 83-56.)

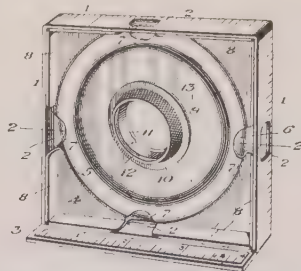
1. A sieve-shaker comprising a sieve-column mounted for oscillation about its vertical axis; an arm associated

with and adapted to oscillate said column, said arm having spaced abutments; a driving shaft; and a link connected at one end with said crank and having in its other



end an enlarged hole freely fitting over said arm for longitudinal play, said link having also lateral play between and against the abutments of the arm.

1,422,231. COMBINED LEVEL, PLUMB, SQUARE, AND MEASURE. JAMES STANLEY, New York, N. Y. Filed Mar. 4, 1920. Serial No. 363,220. 5 Claims. (Cl. 33-212.)

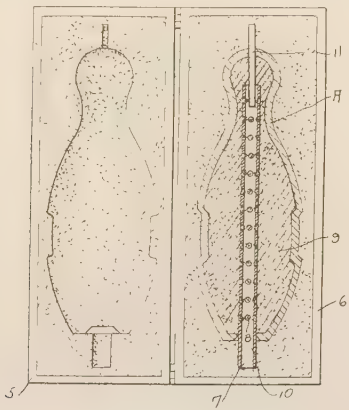


1. A combined level, plumb, square and measure, comprising a frame formed with four equal sides, a metallic housing fitted within said frame formed of two members, each of said members having extensions adapted to contact with the inner face of said frame, a circular opening formed by said housing, a circular spirit tube seated in the circular opening, and means for locking the housing around said tube.

1,422,232. MEANS FOR MAKING CAST BOWLING PINS. RICHARD E. STANLEY, Sr., Pittsburgh, Pa. Filed May 4, 1921. Serial No. 466,642. 4 Claims. (Cl. 22-184.)

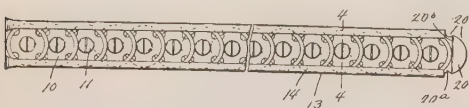
1. Means for making hollow cast bowling pins including a hollow stem, a core formed on the stem, one end por-

tion of said stem projecting beyond the end of the core, the opposite end portion terminating adjacent the oppo-



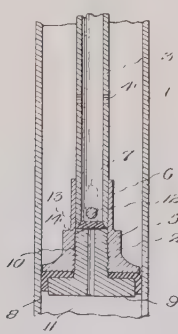
site end of the core, and a pin disposed in the last mentioned end of the core and projecting beyond the core.

1,422,233. PACKAGE FOR SNAP FASTENERS. LOUIS J. STERN. Boston, Mass. Filed Apr. 17, 1919. Serial No. 290,850. 2 Claims. (Cl. 206-46.)



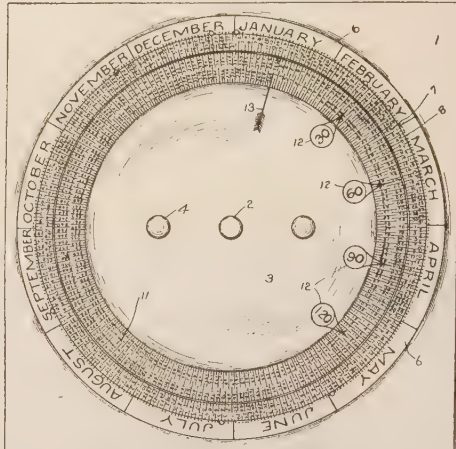
1. A package for snap fasteners and the like formed of a strip of flexible material of substantial length and having a body-portion and side-portions inwardly reflexed to provide a fastener-receiving channel permanently closed at one end, said body-portion extended beyond the other end of the channel and reflexed to provide a handle-portion and an abutment adapted to be flexed into and away from the channel-closing position.

1,422,234. COMBINED VALVE AND PISTON. FREDERICK STICKEL, Chicago, Ill. Filed Mar. 18, 1921. Serial No. 453,428. 4 Claims. (Cl. 103-225.)



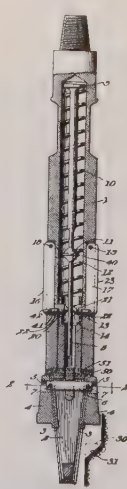
1. In a pump, a hollow piston rod, a nut slidable on the lower end of the rod, a slot and pin connection between said nut and rod, a piston plug carried by said nut and provided with an air port extending therethrough, and a valve disc controlling passage of air through said port.

1,422,235. MATURITY CALENDAR. JAMES M. STOUT, Seattle, Wash. Filed Sept. 22, 1921. Serial No. 502,398. 2 Claims. (Cl. 40-113.)



1. A maturity calendar of the class described embodying a disc, spaces around the outside of the disc in which the names of the months of the year appear, other spaces on the disc in which the days of the months appear, a smaller disc mounted upon the larger one, spaces around the circumference of the smaller disc, numerals in rotation in the spaces, some of these numerals repeated in larger type towards the center of the disc and opposite their respective spaces, an arrow at the numeral 365, knobs mounted on the smaller disc for rotating the disc, a pivot in the center of both discs holding them together, upon which the smaller disc is freely mounted as it rotates on it, holes opposite the days of the month in the large disc and pins which may be inserted in these holes, opposite the Saturdays, Sundays and holidays during the year, and which may be changed from year to year to designate these days so that they may readily be detected.

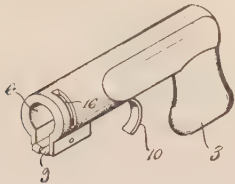
1,422,236. UNDERREAMER. JOHN SWAN, JR., Marietta, Ohio. Filed June 2, 1920. Serial No. 385,876. 6 Claims. (Cl. 255-75.)



1. In an underreamer, the combination of a body, a wedge member consisting of a wedge portion having a shoulder abutting against the bottom of the body and a hollow extension located within and removably secured

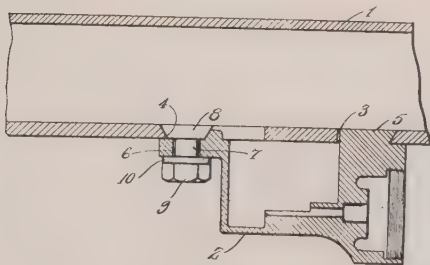
to the body, cutters movably engaging the wedge portion and arranged to abut against the bottom of the body, a rod for moving said cutters and trip mechanism for controlling the movement of said rod.

1,422,237. FIREARM. CARL G. SWEBILIUS, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed Sept. 24, 1919. Serial No. 325,835. 9 Claims. (Cl. 49—75.)



6. In a gun, a member having a socket, a second member engaging said socket, the first member having slots in the socket portion directed transversely to the socket and extending through the socket wall, the second member having grooves to register with said slots, pivoted plates on said first member movable in said slots into engagement with said grooves to lock said members together, and means carried by one plate adapted to engage the second plate to hold said plates in locking position.

1,422,238. FIREARM. CARL G. SWEBILIUS, New Haven, Conn., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn., a Corporation of Delaware. Filed Sept. 24, 1919. Serial No. 325,836. 4 Claims. (Cl. 89—27.)

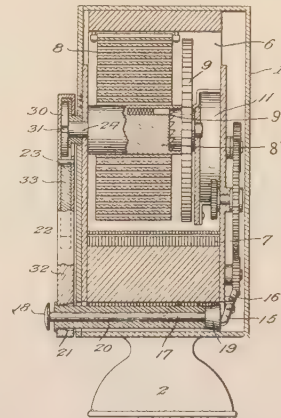


1. A means of attaching one member to another, comprising two slots in one of the members, one end of each slot being undercut, a lug carried by the second member and adapted to coact with the under cut of one slot and a draw bolt carried by said second member, said bolt having a head adapted to coact with the undercut end of said second slot.

1,422,239. FLASH LIGHT. CHARLES W. SWINGLE, Chicago, Ill. Filed May 7, 1920. Serial No. 379,627. 5 Claims. (Cl. 240—8.5.)

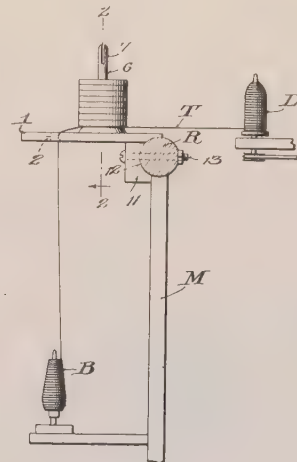
1. A flash light comprising a casing, an electric bulb therein, a current generator within the casing and in circuit with the bulb, gears for driving said generator, oper-

ating means for said gears, a catch for preventing rotation of said gears, and manually operated means when in



one position for releasing said catch and capable when in another position for operating said operating means.

1,422,240. TENSION DEVICE FOR SPOOLING MACHINES. SAMUEL TAYLOR and FREDERICK JARRY, New Bedford, Mass. Filed Apr. 19, 1922. Serial No. 555,567. 4 Claims. (Cl. 242—150.)

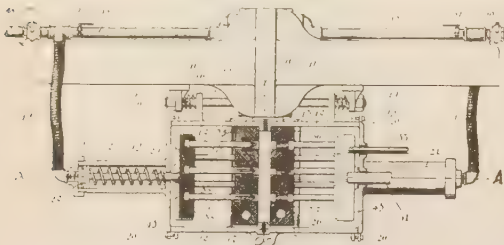


2. In a tension device for spooling machines, in combination with the rising and falling rod thereof, a plate-like member having a thread eye, a vertical stem extending upwardly from the member and having a split spring upper end, means to attach the member to the said rod of the machine, and a series of rotatable weights having openings to receive the stem, the lowermost weight having a heveled periphery over which the yarn passes.

1,422,241. ELECTRIC MULTIPLE-CONNECTION PLUG. CHARLES H. TOMLINSON, Mansfield, Ohio, assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio, a Corporation of Ohio. Filed Apr. 17, 1912. Serial No. 691,511. 71 Claims. (Cl. 173—332.)

45. In a car coupling, the combination with a casing containing a plurality of fixed contacts connected to train line circuits, and a movable carrier having corresponding contact bars, of fluid pressure means for projecting said

carrier to electrically connect the corresponding contacts of counterpart couplers, and a valve device for controlling the return movement of said carrier.

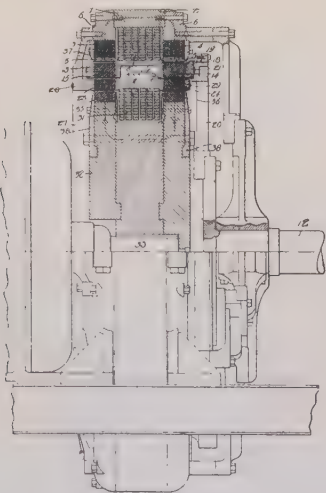


49. An electric train line coupling comprising a pair of cooperating counterpart coupler heads each having a plurality of contact terminals in the form of open-ended bushings connected to the respective car line circuits and each having a carrier provided with a plunger contact extending through the inner end of one of said bushings, and means for projecting said plunger contacts through said bushings and into a corresponding bushing of the co-operating counterpart coupler.

1,422,242. METHOD TO RENDER KAPOK AND OTHER FIBERS INCOMBUSTIBLE. RICARDO CARRERAS VALLS, Barcelona, Spain. Filed June 1, 1920. Serial No. 385,874. 2 Claims. (Cl. 23-5.)

2. A process to render incombustible, kapok and other fibers having an impermeable outer cuticle or envelope, consisting essentially in treating the fiber with a volatile solvent of low boiling point such as alcohol and of rendering it permeable, and in also treating the fiber with ammonium phosphate which is capable of rendering the mass of the fibers incombustible by its penetration inwardly while the outer cuticle or envelope is in a softened and permeable state.

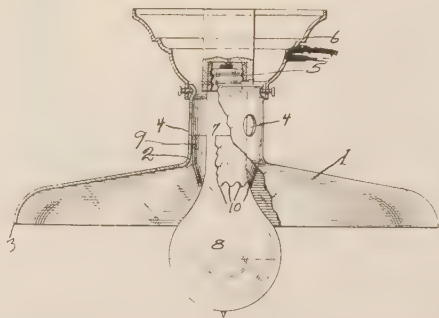
1,422,243. ELECTROMAGNETIC POWER-TRANSMISSION APPARATUS. RUDOLPH W. VAN NORDEN, San Francisco, Calif. Filed Oct. 30, 1918. Serial No. 260,223. 15 Claims. (Cl. 172-239.)



9. An electromagnetic power transmission apparatus, comprising an outer stator having two axially spaced laminated toothed cores, an inner stator having two axially spaced laminated toothed cores, a rotor arranged between said stators having two axially spaced laminated toothed

cores, an inductor arranged within the inner stator having two sets of axially spaced laminated pole pieces, and means for producing a magnetic flux passing axially through said outer stator and inductor and radially through said cores.

1,422,244. LIGHTING UNIT. ROBERT D. WARDELL, Detroit, Mich. Filed May 3, 1920. Serial No. 378,425. 4 Claims. (Cl. 240-92.)

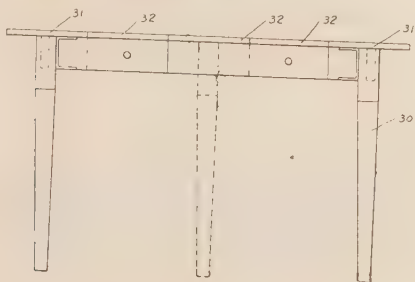


1. The combination of an electric lamp bulb having its lower end translucent forming a shield which will redirect some of the light rays upwardly, with a reflector surrounding said lamp bulb and having an elongated neck, there being a plurality of openings in said neck, a socket for said lamp, means to support said reflector, an annular cylindrical member mounted intermediate the skirt of the lamp and the neck of the reflector, a plurality of teeth on the lower edge of said annular member, the points of which engage the lamp bulb.

1,422,245. PARCEL-POST AND EXPRESS CHART. TIMOTHY E. WEST, Oakland, Calif. Filed Sept. 19, 1918. Serial No. 254,815. 8 Claims. (Cl. 283-23.)

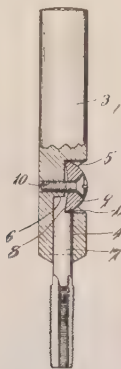
NEW MEXICO							
PARCEL POST UNIT	POST OFFICES AND EXPRESS STATIONS	KEY TO RATES FROM LOS ANGELES	KEY TO RATES FROM SAN FRANCISCO	PARCEL POST UNIT	POST OFFICES AND EXPRESS STATIONS	KEY TO RATES FROM LOS ANGELES	KEY TO RATES FROM SAN FRANCISCO
3776	Abbeville	5100	5100	3781	Cambray 1000	581	596
3778	Abbeville	5100	5100	3782	Cambray 1000	581	596
3779	Abbeville	5100	5100	3783	Cambray 1000	581	596
3780	Abbeville	5100	5100	3784	Cambray 1000	581	596
3781	Abbeville	5100	5100	3785	Cambray 1000	581	596
3782	Abbeville	5100	5100	3786	Cambray 1000	581	596
3783	Abbeville	5100	5100	3787	Cambray 1000	581	596
3784	Abbeville	5100	5100	3788	Cambray 1000	581	596
3785	Abbeville	5100	5100	3789	Cambray 1000	581	596
3786	Abbeville	5100	5100	3790	Cambray 1000	581	596
3787	Abbeville	5100	5100	3791	Cambray 1000	581	596
3788	Abbeville	5100	5100	3792	Cambray 1000	581	596
3789	Abbeville	5100	5100	3793	Cambray 1000	581	596
3790	Abbeville	5100	5100	3794	Cambray 1000	581	596
3791	Abbeville	5100	5100	3795	Cambray 1000	581	596
3792	Abbeville	5100	5100	3796	Cambray 1000	581	596
3793	Abbeville	5100	5100	3797	Cambray 1000	581	596
3794	Abbeville	5100	5100	3798	Cambray 1000	581	596
3795	Abbeville	5100	5100	3799	Cambray 1000	581	596
3796	Abbeville	5100	5100	3800	Cambray 1000	581	596
3797	Abbeville	5100	5100	3801	Cambray 1000	581	596
3798	Abbeville	5100	5100	3802	Cambray 1000	581	596
3799	Abbeville	5100	5100	3803	Cambray 1000	581	596
3800	Abbeville	5100	5100	3804	Cambray 1000	581	596
3801	Abbeville	5100	5100	3805	Cambray 1000	581	596
3802	Abbeville	5100	5100	3806	Cambray 1000	581	596
3803	Abbeville	5100	5100	3807	Cambray 1000	581	596
3804	Abbeville	5100	5100	3808	Cambray 1000	581	596
3805	Abbeville	5100	5100	3809	Cambray 1000	581	596
3806	Abbeville	5100	5100	3810	Cambray 1000	581	596
3807	Abbeville	5100	5100	3811	Cambray 1000	581	596
3808	Abbeville	5100	5100	3812	Cambray 1000	581	596
3809	Abbeville	5100	5100	3813	Cambray 1000	581	596
3810	Abbeville	5100	5100	3814	Cambray 1000	581	596
3811	Abbeville	5100	5100	3815	Cambray 1000	581	596
3812	Abbeville	5100	5100	3816	Cambray 1000	581	596
3813	Abbeville	5100	5100	3817	Cambray 1000	581	596
3814	Abbeville	5100	5100	3818	Cambray 1000	581	596
3815	Abbeville	5100	5100	3819	Cambray 1000	581	596
3816	Abbeville	5100	5100	3820	Cambray 1000	581	596
3817	Abbeville	5100	5100	3821	Cambray 1000	581	596
3818	Abbeville	5100	5100	3822	Cambray 1000	581	596
3819	Abbeville	5100	5100	3823	Cambray 1000	581	596
3820	Abbeville	5100	5100	3824	Cambray 1000	581	596
3821	Abbeville	5100	5100	3825	Cambray 1000	581	596
3822	Abbeville	5100	5100	3826	Cambray 1000	581	596
3823	Abbeville	5100	5100	3827	Cambray 1000	581	596
3824	Abbeville	5100	5100	3828	Cambray 1000	581	596
3825	Abbeville	5100	5100	3829	Cambray 1000	581	596
3826	Abbeville	5100	5100	3830	Cambray 1000	581	596
3827	Abbeville	5100	5100	3831	Cambray 1000	581	596
3828	Abbeville	5100	5100	3832	Cambray 1000	581	596
3829	Abbeville	5100	5100	3833	Cambray 1000	581	596
3830	Abbeville	5100	5100	3834	Cambray 1000	581	596
3831	Abbeville	5100	5100	3835	Cambray 1000	581	596
3832	Abbeville	5100	5100	3836	Cambray 1000	581	596
3833	Abbeville	5100	5100	3837	Cambray 1000	581	596
3834	Abbeville	5100	5100	3838	Cambray 1000	581	596
3835	Abbeville	5100	5100	3839	Cambray 1000	581	596
3836	Abbeville	5100	5100	3840	Cambray 1000	581	596
3837	Abbeville	5100	5100	3841	Cambray 1000	581	596
3838	Abbeville	5100	5100	3842	Cambray 1000	581	596
3839	Abbeville	5100	5100	3843	Cambray 1000	581	596
3840	Abbeville	5100	5100	3844	Cambray 1000	581	596
3841	Abbeville	5100	5100	3845	Cambray 1000	581	596
3842	Abbeville	5100	5100	3846	Cambray 1000	581	596
3843	Abbeville	5100	5100	3847	Cambray 1000	581	596
3844	Abbeville	5100	5100	3848	Cambray 1000	581	596
3845	Abbeville	5100	5100	3849	Cambray 1000	581	596
3846	Abbeville	5100	5100	3850	Cambray 1000	581	596
3847	Abbeville	5100	5100	3851	Cambray 1000	581	596
3848	Abbeville	5100	5100	3852	Cambray 1000	581	596
3849	Abbeville	5100	5100	3853	Cambray 1000	581	596
3850	Abbeville	5100	5100	3854	Cambray 1000	581	596
3851	Abbeville	5100	5100	3855	Cambray 1000	581	596
3852	Abbeville	5100	5100	3856	Cambray 1000	581	596
3853	Abbeville	5100	5100	3857	Cambray 1000	581	596
3854	Abbeville	5100	5100	3858	Cambray 1000	581	596
3855	Abbeville	5100	5100	3859	Cambray 1000	581	596
3856	Abbeville	5100	5100	3860	Cambray 1000	581	596
3857	Abbeville	5100	5100	3861	Cambray 1000	581	596
3858	Abbeville	5100	5100	3862	Cambray 1000	581	596
3859	Abbeville	5100	5100	3863	Cambray 1000	581	596
3860	Abbeville	5100	5100	3864	Cambray 1000	581	596
3861	Abbeville	5100	5100	3865	Cambray 1000	581	596
3862	Abbeville	5100	5100	3866	Cambray 1000	581	596
3863	Abbeville	5100	5100	3867	Cambray 1000	581	596
3864	Abbeville	5100	5100	3868	Cambray 1000	581	596
3865	Abbeville	5100	5100	3869	Cambray 1000	581	596
3866	Abbeville	5100	5100	3870	Cambray 1000	581	596
3867	Abbeville	5100	5100	3871	Cambray 1000	581	596
3868	Abbeville	5100	5100	3872	Cambray 1000	581	596
3869	Abbeville	5100	5100	3873	Cambray 1000	581	596
3870	Abbeville	5100	5100	3874	Cambray 1000	581	596
3871	Abbeville	5100	5100	3875	Cambray 1000	581	596
3872	Abbeville	5100	5100	3876	Cambray 1000	581	596
3873	Abbeville	5100	5100	3877	Cambray 1000	581	596
3874	Abbeville	5100	5100	3878	Cambray 1000	581	596
3875	Abbeville	5100	5100	3879	Cambray 1000	581	596
3876	Abbeville	5100	5100	3880	Cambray 1000	581	596
3877	Abbeville	5100	5100	3881	Cambray 1000	581	596
3878	Abbeville	5100	5100	3882	Cambray 1000	581	596
3879	Abbeville	5100	5100	3883	Cambray 1000	581	596
3880	Abbeville	5100	5100	3884	Cambray 1000	581	596
3881	Abbeville	5100	5100	3885	Cambray 1000	581	596
3882	Abbeville	5100	5100	3886	Cambray 1000	581	596
3883	Abbeville	5100	5100	3887	Cambray 1000	581	596
3884	Abbeville	5100	5100	3888	Cambray 1000	581	596
3885	Abbeville	5100	5100	3889	Cambray 1000	581	596
3886	Abbeville	5100	5100	3890	Cambray 1000	581	596
3887	Abbeville	5100	5100	3891	Cambray 1000	581	596
3888	Abbeville	5100	5100	3892	Cambray 1000	581	596
3889	Abbeville	5100	5100	3893	Cambray 1000	581	596
3890	Abbeville	5100	5100	3894	Cambray 1000	581	596
3891	Abbeville	5100	5100	3895	Cambray 1000	581	596
3892	Abbeville	5100	5100	3896	Cambray 1000	581	596
3893	Abbeville	5100	5100	3897	Cambray 1000	581	596
3894	Abbeville	5100	5100	3898	Cambray 1000	581	596
3895	Abbeville	5100	5100	3899	Cambray 1000	581	596
3896	Abbeville	5100	5100	3900	Cambray 1000	581	596
3897	Abbeville	5100	5100	3901	Cambray 1000	581	596
3898	Abbeville	5100	5100	3902	Cambray 1000	581	596
3899	Abbeville	5100	5100	3903	Cambray 1000	581	596
3900	Abbeville	5100	5100	3904	Cambray 1000	581	596
3901	Abbeville	5100	5100	3905	Cambray 1000	581	596
3902	Abbeville	5100	5100	3906	Cambray 1000	581	596
3903	Abbeville	5100	5100	3907	Cambray 1000	581	596
3904	Abbeville	5100	5100	3908	Cambray 1000	581	596
3905	Abbeville	5100	5100	3909	Cambray 1000	581	596
3906	Abbeville	5100	5100	3910	Cambray 1000	581	596
3907	Abbeville	5100	5100	3911	Cambray 1000	581	596
3908	Abbeville	5100	5100	3912	Cambray 1000	581	596
3909	Abbeville	5100	5100	3913	Cambray 1000	581	596
3910	Abbeville	5100	5100	3914	Cambray 1000	581	596
3911	Abbeville	5100	5100	3915	Cambray 1000	581	596
3912	Abbeville	5100	5100	3916	Cambray 1000	581	596
3913	Abbeville	5100	5100	3917	Cambray 1000	581	596
3914	Abbeville	5100	5100	3918	Cambray 1000	581	596
3915	Abbeville	5100	5100	3919	Cambray 1000	581	596
3916	Abbeville	5100	5100	3920	Cambray 1000		

side forming means, complementary means on said top forming leaves for securing the same together, detachable



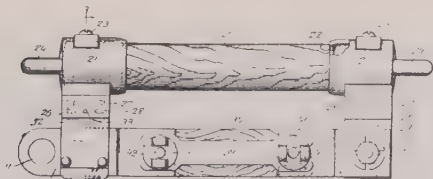
and sectional longitudinal side forming means for bracing said legs and supporting said leaves, and means for locking all of said parts when in assembled relation.

1,422,247. TOOL HOLDER. JOHN C. ALQUIST, Portland, Conn. Filed Feb. 19, 1919. Serial No. 278,014. 2 Claims. (Cl. 279—76.)



1. A holder having a hole extending inwardly from its end and a recess extending inwardly from one side and intersecting said hole thereby forming a shoulder at said intersection, and a round clamp rotatably mounted in said recess and having a conical shaped concavity forming an inclined clamping face on the back thereof to engage an inclined surface of a tool and draw it against said shoulder.

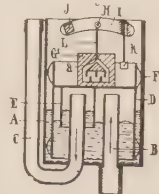
1,422,248. DISCONNECTING DEVICE. JOHN P. ARNDT, Milwaukee, Wis. Filed Oct. 24, 1919. Serial No. 333,001. 1 Claim. (Cl. 200—114.)



A disconnecting device adapted to mechanically and electrically connect two line conductors together, comprising a cylindrical insulating base, a metallic cap fitting over and attached to each end of the base and provided with a ring to which one of the line conductors may be secured, whereby the base and metallic caps take up the strain of the line conductors, a terminal mounted upon

each cap, the terminals being provided with means for connecting the respective line conductors therewith, a contact jaw carried by the one terminal, a resilient clip carried by the other terminal, a contact arm including an insulating strip carrying at opposite ends contact blades, one blade being pivoted on the jaw and the other adapted to be engaged by the resilient clips, and a fuse link connected between the contact blades of the contact arm.

1,422,249. APPARATUS FOR LIGHTING AND EXTINGUISHING GAS BURNERS OF STREET LAMPS. PAUL BERNARD, Boulogne-sur-Seine, and MAXIME BARBÉ, Paris, France. Filed Jan. 31, 1920. Serial No. 355,534. 5 Claims. (Cl. 67—18.)



1. In an automatic gas controller, the combination of a rising and falling, pressure operated gas bell; a controlling member mounted on the top of the bell to move therewith and provided with grooves and projections; a weighted balance beam disposed above and extending horizontally across said member; and a rod depending from and rigidly related to the central portion of said beam and having a part arranged to cooperate with said grooves and projections to control the movements of the bell.

1,422,250. EGG TURNER. WILLIAM H. BIHN, Petaluma, Calif. Filed July 20, 1921. Serial No. 486,219. 5 Claims. (Cl. 119—44.)

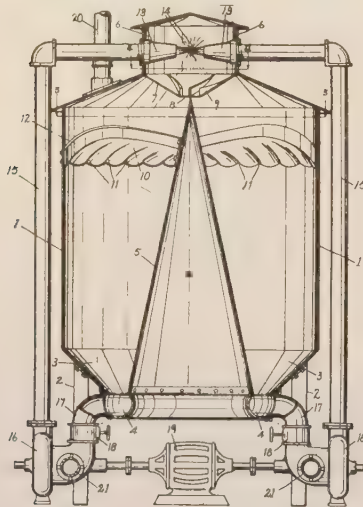


1. In combination with an incubator having a plurality of units of superposed pivotally supported trays therein, a windlass disposed longitudinally of the incubator and arranged within the same, and means connected to the opposite sides of said units of pivotally supported trays and engaged with said windlass in a manner to impart alternate pulls to the opposite sides of the units of trays upon rotation of said windlass.

1,422,251. METHOD OF AND APPARATUS FOR DIS-INTEGRATING PAPER STOCK. MILTON C. J. BILLINGHAM, Kalamazoo, Mich., assignor of one-half to Henry L. Vander Horst, Kalamazoo, Mich. Filed July 25, 1918. Serial No. 246,695. 19 Claims. (Cl. 92—20.)

1. In a stock treating machine, the combination of a cylindrical tank disposed vertically and having an in-

verted conical bottom, a cone disposed centrally within said tank, a plurality of transversely inclined deflector plates disposed radially at the upper end of said cone, a chamber having an inverted conical bottom with a central discharge opening, the top of the cone being close to and centrally of said discharge opening, plates arranged on said nozzle chamber bottom to impart a rotary motion to the material discharged therethrough, and a pump discharging into said chamber and having its intake connected to the bottom of said tank.



17. The method of distintegrating paper consisting of discharging under pressure the paper to be disintegrated with a suspending or carrying liquid through nozzles disposed so that the material and liquid of one stream impinge with the material and liquid of another stream, the nozzles being spaced so that there is a substantial spreading of the streams at the point of their impingement.

1,422,252. LOADING AND TRANSPORTING APPARATUS. LADISLAS B. BOREIKO, Honolulu, Territory of Hawaii. Filed May 4, 1921. Serial No. 466,847. 8 Claims. (Cl. 198—122.)

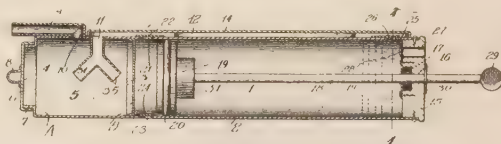


1. A field conveying and loading apparatus including a runway consisting of a plurality of open topped troughs arranged in end to end relation and interconnected at their adjacent ends, an anchor associated with one end of said runway permitting the opposite end to swing in an arc about said anchor, a self propelled power unit over which the discharge end of said runway extends for elevating the discharge end in a plane above the remainder, an endless conveyer operating within said runway, conveyer members carried thereby, sheaves around which said conveyer operates, and a power connection between said self propelled power unit and said conveyer.

1,422,253. POWDER DISTRIBUTOR. COLIN BROWN, Rochester, N. Y. Filed Aug. 22, 1919. Serial No. 319,281. 4 Claims. (Cl. 43—147.)

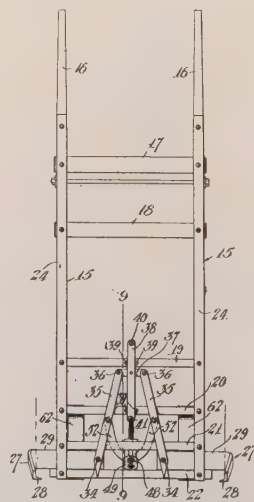
4. In a powder distributor, the combination with a casing enclosing a powder chamber and an air chamber, of a

discharge nozzle on the powder chamber, a piston in the air chamber, a conduit joining the powder chamber with the air chamber, a Y shaped nozzle within the powder chamber connected to the conduit and adapted to discharge jets of air against the lower portions of the opposite end walls, a valve on each side of the piston closing



the ports between the air chamber and conduit, each of said valves being adapted to prevent back flow from the conduit into the air chamber, valve control intake ports for the air chamber also on each side of said piston, and a handle on the casing adjacent an end thereof and having a bracket portion acting as a guard for one of the intake ports.

1,422,254. HAND TRUCK. CARL O. CARLSON, Riverside, Calif. Filed June 2, 1920. Serial No. 386,053. 9 Claims. (Cl. 214—65.5.)

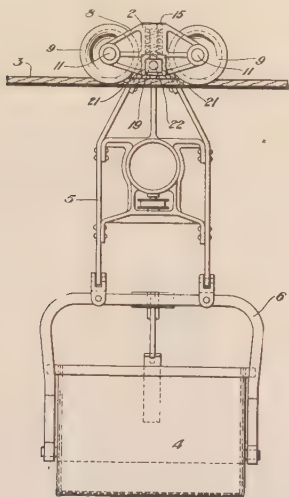


1. A hand truck comprising a frame, supporting wheels for the frame, locking means in the frame, and a pair of movable jaws mounted in the frame arranged to be moved by the weight of the load into engagement with said locking means.

1,422,255. AERIAL TRAMWAY. FREDERICK C. CARSTARPHEN, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Jan. 27, 1922. Serial No. 532,139. 4 Claims. (Cl. 105—750.)

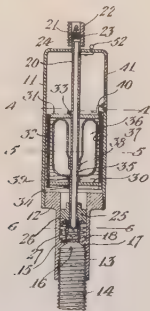
2. An aerial tramway carriage comprising a body portion, wheels journaled at each end of said body portion, a piston member mounted in a suitable cylinder recess formed intermediate the ends of said carriage, said piston being provided with a head portion and a shank portion and adapted to suspendingly support a load carrying mem-

ber, a spring member for normally yieldably holding said piston in its uppermost position, and said piston head por-



tion being adapted to form an air cushion above said head on the up stroke when said piston is reciprocated vertically.

- 1,422,256. CAP GAUGE FOR PNEUMATIC TIRES. FREDERICK A. CONRAD and JAMES L. CONRAD, Los Angeles, Calif. Filed Sept. 27, 1919. Serial No. 326,964. 7 Claims. (Cl. 73—110.)

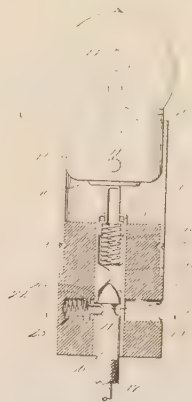


1. A cap gauge for pneumatic tires comprising a cylindrical cap, a hollow stem on the lower end of the cap having an interiorly threaded portion arranged to engage the end of the valve stem of the tire, a hollow plunger extending through said cap arranged to engage the valve member in said valve stem, an elastic bag in said cap surrounding said hollow plunger in open communication with the interior of the hollow plunger, means for yieldingly holding said bag in collapsed position and an indicator operated by said bag.

- 1,422,257. CIRCUIT CONNECTOR. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 15, 1918. Serial No. 250,022. 1 Claim. (Cl. 173—328.)

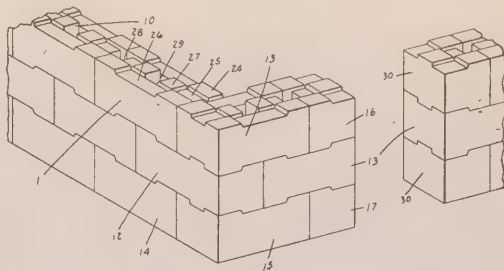
A circuit connector including a contact carrier having a recess therein, a longitudinally recessed conductor extending through the carrier and intersecting the recess of the carrier at right angles thereto, said conductor having a passage therein of less diameter than the recess of the carrier and connecting the conductor recess with the carrier recess, a latch slidable in the carrier recess and having a reduced forward end operating in the passage of the conductor and forming a shoulder engageable with the

conductor to limit locking movement of the latch, and a spring between the latch and the base of the carrier



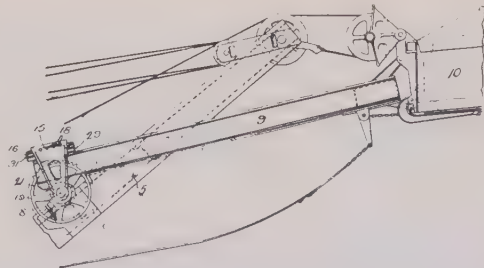
recess operating to project the latch against a circuit extending plug inserted in the recess of the conductor to force said plug into firm contact with the conductor.

- 1,422,258. BUILDING BLOCK. HARVEY L. EMERY, Worthington, Ind., assignor to Self Lay Block & Machine Company, Vincennes, Ind. Filed Jan. 10, 1921. Serial No. 436,244. 6 Claims. (Cl. 72—38.)



2. A building block having an interlocking surface, said surface including a projection at each corner thereof separated by spaces and a central projection of equal height with the other projections and positioned between said corner projection and at the intersection of the diagonals therebetween, said central projection being receivable by two adjacent end spaces of two adjacent blocks of an adjacent tier when in wall formation.

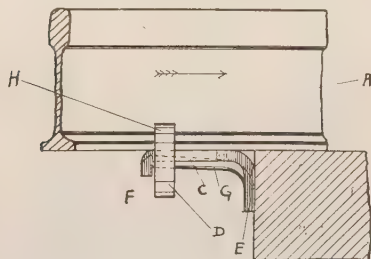
- 1,422,259. SADDLE-BLOCK STRUCTURE FOR EXCAVATORS. CLARENCE E. GAGE, Evansville, Ind., assignor to Bucyrus Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 17, 1921. Serial No. 445,729. 3 Claims. (Cl. 214—135.)



1. A structure of the class described comprising a shaft, a holding member in juxtaposition to the shaft and

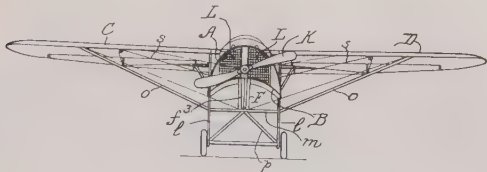
selectively movable with respect thereto, a shiftable member movable between the shaft and said holding member, and a slide plate carried by the holding member and disposed between the holding member and shiftable member for sliding engagement with the latter, said plate retaining the holding member against movement whereby to hold the shiftable member in definite relation to the shaft and against removal from its normal position, said slide plate being readily removable from the holding member to permit movement of the latter with respect to the shaft and the shiftable member for the disassembling of the latter.

1,422,260. ANTICREEPER. HORATIO G. GILLMOR, Washington, D. C. Filed Jan. 22, 1919. Serial No. 272,569. 10 Claims. (Cl. 238—324.)



2. A rail anchor, comprising a rigid rail base engaging member formed with a movement limiting shoulder and with a tie engaging flange and a resilient yoke which extends around the rail base engaging member and the rail base, said member and said yoke interlocking and being adjustable to the operative position upon the rail by movement of both transversely upon the rail and so constructed that movement of said yoke in relation to said tie abutting member in one direction will effect a positive wedging action.

1,422,261. AIRCRAFT. FREDERICK W. GORE, Huntington, N. Y. Filed Dec. 9, 1919, Serial No. 343,667. Renewed Jan. 3, 1922. Serial No. 526,808. 26 Claims. (Cl. 244—12.)



1. An aircraft embodying a combined fuselage and main longitudinal plane comprising a plurality of cross sectional curved members positioned one below the other, the under surface of the lower member being free and unobstructed for the flow of air within a tunnel-like space extending lengthwise of the fuselage at the bottom thereof.

1,422,262. HAMMER. CHRIST HANSEN, Mink Creek, Idaho. Filed May 27, 1921. Serial No. 473,076. 1 Claim. (Cl. 254—26.)

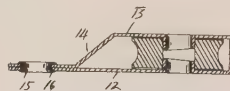
A hammer comprising a head having claws of unequal length, the longer one being inclined toward the central line of the head and terminating in a point lying upon

said central line, whereby an accurate blow may be struck with said point to force the same into a staple



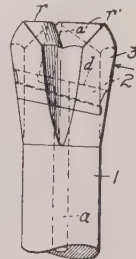
to be pulled, the space between said claws providing a nail-pulling slot, whereby said point may be used for pulling staples or the like.

1,422,263. TWO-PIECE-PULLEY CONSTRUCTION. FRED HASKEL, Detroit, Mich. Filed June 18, 1921. Serial No. 478,621. 6 Claims. (Cl. 254—192.)



1. In a pulley, the combination with a bendable U-shaped frame provided with a transverse pivot portion extending inwardly from one of its sides, said pivot portion having a length on the side farthest from the base of the U greater than that on the side nearest to the base, of a pulley wheel insertable between the sides of the frame and engageable over the pivot portion when the sides are separated.

1,422,264. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Sept. 19, 1921. Serial No. 501,585. 9 Claims. (Cl. 255—64.)



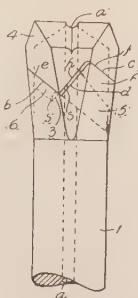
1. In combination with a drill-bar or shank terminating at one end in a tongue, the side walls of which are provided with grooves having one wall inclined to the shank offset at the base of the tongue, a bit movable across the axis of the shank and provided with an open-ended groove to receive the tongue, and tongues projecting from the walls of said groove for cooperating with the grooves in the side-walls of the shank tongue.

2. In combination with a drill-bar or shank, a bit detachably mounted thereon and movable across the axis of the shank in a direction so as to tighten on the shank during the drilling operation, said shank being provided

with a port throughout its length, said bit also being provided with a port offset from the port in the shank and communicating therewith.

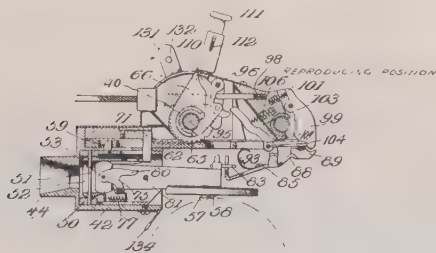
3. In combination with a drill-bar or shank, a detachable bit cooperating therewith, said bit being provided with a series of cutting edges converging to a point eccentric with the center of rotation of the shank, said shank and bit being traversed by a water-hole having an outlet at the convergence of the cutting edges.

1,422,265. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Nov. 21, 1921. Serial No. 516,784. 4 Claims. (Cl. 287—103.)



1. In combination with a shank, a cutting tool adapted to be detachably secured thereto, said shank being provided on the cutting end thereof with a zigzag formation including an abutment wall provided with a tapered hole, said cutting tool being provided with complementary formations for cooperating with those on the shank, and having a tapered tongue adapted to be wedged in the aforesaid hole when tool and shank are assembled.

1,422,266. TALKING MACHINE. FRANK C. HINCKLEY, Bridgeport, Conn., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Mar. 20, 1917. Serial No. 156,044. 42 Claims. (Cl. 274—21.)

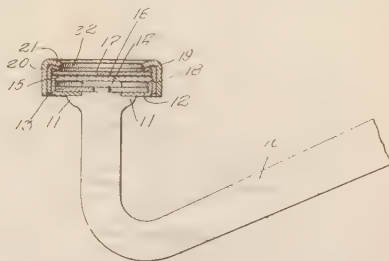


1. The combination in a talking machine of a record support, a sound-box, feed devices for advancing and returning said sound-box across said support, cooperative mechanism between them adapted to be operated to render one or the other operative, and means mounted upon the machine and movable into and out of functional position, and adapted in said functional position to be operated to actuate said cooperative mechanism.

1,422,267. COVER FOR TYPEWRITER KEYS. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Dec. 19, 1919. Serial No. 345,948. 3 Claims. (Cl. 197—102.)

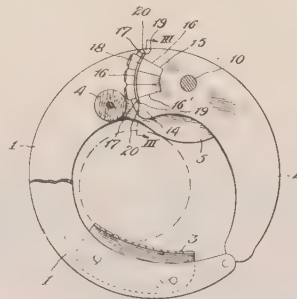
1. In combination, a typewriter key having a metallic outer surface member surrounding the lateral face thereof and having the upper face thereof arranged to carry a designation character and a cover ring of relatively hard non-metallic material of a size to fit snugly over said key without material stretching of said ring, said ring

having the upper edge thereof turned inwardly to provide an inwardly projecting flange with a central opening



to permit the designation character upon the upper face of said key to be seen by the operator.

1,422,268. TYPE-HOLDING MEANS FOR MARKING DEVICES. ADOLPH G. HUFEL, Reno, Nev., assignor to Hup Mfg. Co. Inc., New York, N. Y., a Corporation of New York. Original application filed Feb. 7, 1921, Serial No. 443,120. Divided and this application filed June 28, 1921. Serial No. 480,990. 4 Claims. (Cl. 101—377.)

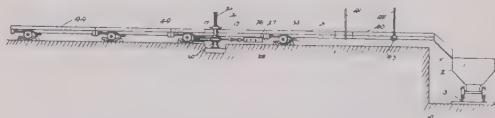


2. In a marking device, the combination of a marking member provided with a type receiving recess intersecting one end and both sides of said member; types in said recess provided with lateral end registering grooves; and means secured to said marking member engaging said grooves to hold said types in said recess.

1,422,269. COKING OF COAL. STEWART ROY ILLINGWORTH, Treforest, Wales. Filed Mar. 1, 1921. Serial No. 448,871. 5 Claims. (Cl. 202—8.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

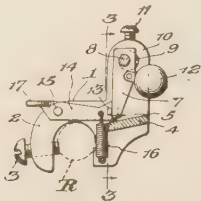
1. In the art of coking coal the improvement which comprises submitting the coal out of contact with air to a temperature and for a time sufficient to destroy a portion of the non-coke producing substances in the coal, but to leave 5% by weight of the resinic substances in the product.

1,422,270. RECIPROCATING PAN CONVEYER. GEORGE C. ILLINGWORTH, Anniston, Ala. Filed July 25, 1921. Serial No. 487,312. 10 Claims. (Cl. 198—220.)



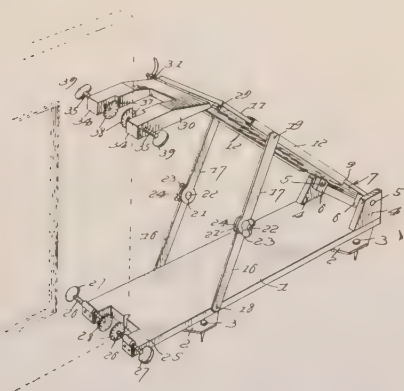
1. A conveyer composed of a series of detachable pans, connecting straps attached to adjacent ends of the pans, bolts connecting the straps and forming a flexible joint between the pans and means to reciprocate the pans.

1,422,271. SLUB CATCHER. FREDERICK JARRY, New Bedford, Mass., assignor of one-half to Samuel Taylor, New Bedford, Mass. Filed Dec. 1, 1921. Serial No. 519,268. 6 Claims. (Cl. 28—64.)



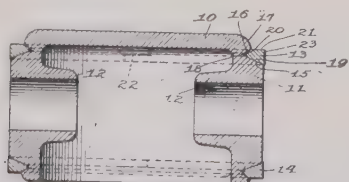
2. In a slub catcher, a frame having a face inclined to the horizontal, a swinging frame cooperating with said face to define a thread passage therebetween, and engageable with the high side of the inclined face to limit swinging of the frame in one direction, means to adjust the frame relative to the table, and a pivoted tensioned lever engaging the swinging frame to limit swinging in the opposite direction and being movable to allow the frame to be swung to release a caught slub.

1,422,272. BENCH OR FLOOR DOG. FRANK JASKOWIAK, St. Cloud, Minn. Filed Dec. 14, 1921. Serial No. 522,330. 5 Claims. (Cl. 144—296.)



1. In a floor or bench dog, a base member adapted to be secured to a stationary support, the opposite end of the base member having upstanding supports, a supporting member pivotally mounted upon said supports, said pivotally mounted member having a yieldably mounted extension, means for holding the pivotally mounted member in different positions pivotally relatively to the base member, the corresponding ends of the base member and the extension having axially aligned clamps, between which the door, window sash or the like may engage, whereby it may be planed.

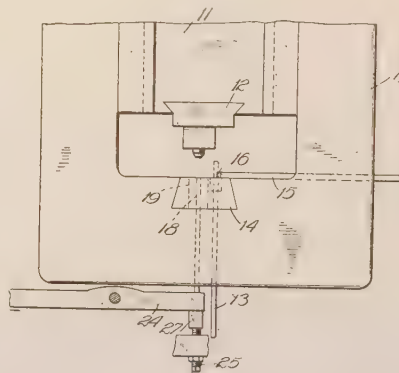
1,422,273. PISTON AND PISTON RING. HARRY B. JOHNSTON, Seattle, Wash. Filed Jan. 17, 1921, Serial No. 437,816. Renewed May 18, 1922. Serial No. 562,036. 5 Claims. (Cl. 74—109.)



1. In combination, a piston having a groove adjacent its end, and a ring in the groove, the groove having a

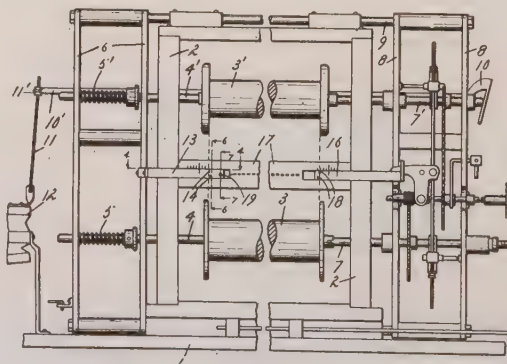
narrow inclined conical wall inclining outwardly and toward the surface of the piston adjacent its head which is exposed to the pressure at the end thereof, a conical wall inclined oppositely to the narrow inclined conical wall of the groove, the ring having two conical surfaces for contact and cooperation with the conical walls of the groove.

1,422,274. METHOD AND APPARATUS FOR MAKING HEADED MACHINE PARTS. DAVID EMANUEL JOHNSON and THORVALD AUGUST MADSEN, Rockford, Ill., assignors to National Lock Company, Rockford, Ill., a Corporation of Illinois. Filed July 8, 1920. Serial No. 394,671. 4 Claims. (Cl. 10—11.)



1. The process of forming a headed member comprising the step of supporting a blank in a die, the step of shaping the body of the head, the step of protruding the blank from said die, and the step of shearing the fin from the protruded blank.

1,422,275. PNEUMATIC PIANO PLAYER. WALTER LANE, Holland, Mich. Filed May 19, 1917. Serial No. 169,669. 12 Claims. (Cl. 84—145.)

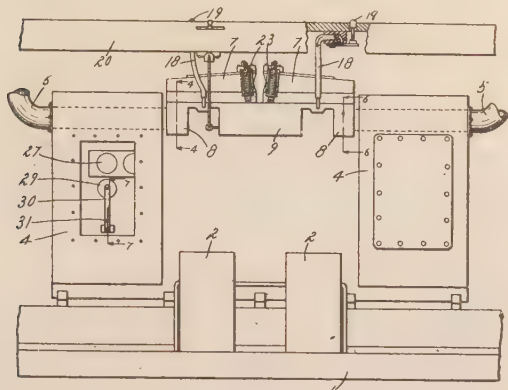


1. In a structure of the class described, the combination of a web support, tracker bar, means for controlling the movement of said web support in the direction of the length of the tracker bar comprising pneumatics, and a pair of tracker members slidably associated with said tracker bar and movable with said web support and provided with ducts connected to said pneumatics, one of said tracker members being provided with a loud pedal duct.

1,422,276. AUTOMATIC PLAYER PIANO. WALTER LANE, Holland, Mich. Filed May 19, 1917. Serial No. 169,670. 8 Claims. (Cl. 84—41.)

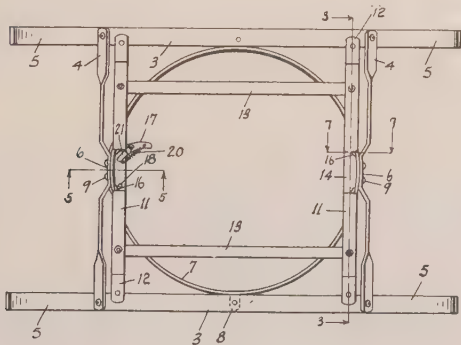
8. In a structure of the class described, the combination with the exhauster means of reservoirs communicating therewith, a pair of suction chests, means for regulating

the suction in said suction chests comprising a suction regulating pneumatic, and manually controlled means for regulating the suction in each of said suction chests individually, and separate manually controlled means for regulat-



ing the suction in both of said suction chests, the first and last manually controlled regulating means being arranged in series whereby the latter means can control the action of the other.

1,422,277. CHILD'S CARRIAGE. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Filed June 2, 1921. Serial No. 474,346. 8 Claims. (Cl. 280—47.)

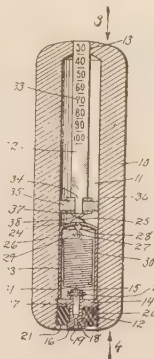


1. In a carriage, the combination of a supporting frame, comprising side members and spaced cross bars provided with opposed centrally disposed inwardly projecting offsets, an annular way mounted between said side members and cross members with the lower edges of the offsets of the cross members projecting below the lower edge of the way, a body support, comprising transverse members and connecting members therefor, said transverse members having central downward offsets therein disposed within said way, the shoulder portions of said offsets having recesses therein receiving said way, a latch pivoted on one of said transverse body support members to coact with the projecting lower edges of the offsets of said supporting frame cross members, and a spring for said latch.

1,422,278. PRESSURE GAUGE. ARTHUR B. LOW, Denver, Colo. Filed Aug. 4, 1921. Serial No. 489,818. 3 Claims. (Cl. 73—111.)

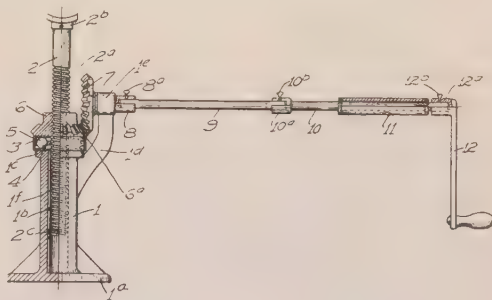
1. A pressure gauge of the character disclosed, embodying a casing that provides a longitudinal chamber opening to a top guiding aperture and having a bottom closure provided with a duct therethrough and including a valve stem contacting element and a surrounding seating face, an

elongated indicator operating at its outer end through said top guiding aperture and towards its inner end provided with a combined centering, guiding and retaining element slidably associated with the wall of said chamber in yield-



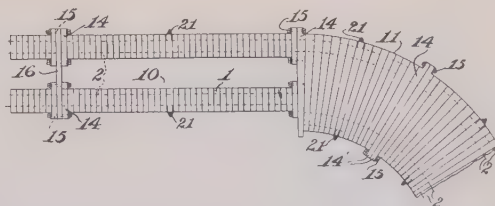
ing frictional contact therewith, actuating means adapted only for outwardly operating said indicator with its retaining element by pressure fluid admitted through said duct, and retractile means for said actuating means.

1,422,279. JACKSCREW. JOHN M. LYDICK, San Diego, Calif. Filed Apr. 27, 1920. Serial No. 376,910. 2 Claims. (Cl. 254—103.)



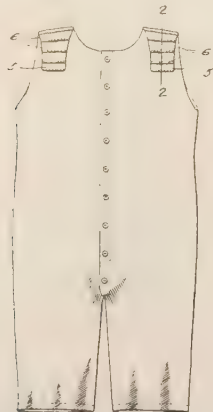
1. A jack screw, including a base member provided with an integral sideways and upwardly extended side arm journal portions extending from one side thereof, a bevel gear with its lower face downwardly, supported on said base member and threaded internally, a screw member adapted to screw into said thread in said bevel gear, a bevel gear intermeshing with said first mentioned bevel gear journaled in said side arm on said base and means for revolving said bevel gear.

1,422,280. PORTABLE ROADWAY. ARNOLD C. LUTGERT and ERNEST H. MEIKLEJOHN, Seattle, Wash., assignors of one-third to Ralph D. Brown, Seattle, Wash. Filed Mar. 31, 1921. Serial No. 457,167. 6 Claims. (Cl. 238—3.)



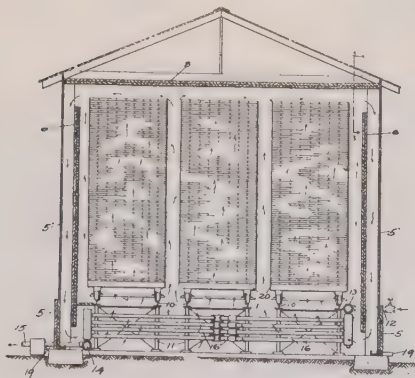
1. A portable sectional roadway, each section consisting of a series of beams placed side by side and a flexible cable passing through all said beams to hold them together.

1,422,281. UNDERGARMENT. CLARENCE R. MCFARLAND, Marion, Ill. Filed Feb. 21, 1921. Serial No. 446,692. 1 Claim. (Cl. 2—144.)



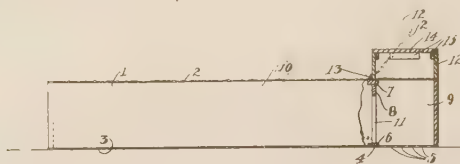
A one piece undergarment having integrally formed shoulder portions in the nature of straps which are folded upon themselves and stitched, the stitched folds on each of the straps being arranged in spaced superimposed relation to each other whereby the stitching between any of the folds may be severed without interfering with the stitching of the remaining folds.

1,422,282. HEAT-RADIATING DEVICE. EUGENE G. MCGLAUFILIN, Portland, Oreg. Filed Mar. 17, 1920. Serial No. 366,504. 1 Claim. (Cl. 257—155.)



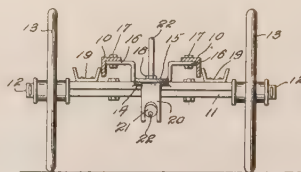
A heat radiating device, wherein is combined, a feed pipe, a discharge pipe positioned below the plane of the feed pipe, and a series of batteries of lateral pipes, each lateral pipe being independent and extending from a connection with the feed pipe at an angle and inclination, to a connection, thence in a reverse angle and inclination to a connection with said discharge pipe, each of said lateral pipes being arranged to allow effective drainage through the same, without auxiliary means therefor, and also to allow each lateral pipe and sections thereof to be secured, adjusted, or removed between connections, independently of other pipes in said radiating device.

1,422,283. HUTCH. JOHN F. MCKIM, San Jose, Calif. Filed June 11, 1920. Serial No. 388,145. 2 Claims. (Cl. 119—19.)



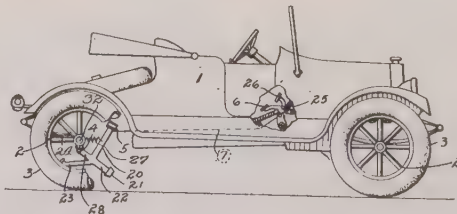
1. In a device of the character described, a housing having an open top, a hopper hinged to the housing and adapted to form a closure for the top thereof, and a wire mesh bottom for said hopper.

1,422,284. STEERING MECHANISM. RUDOLPH A. MACK, Gallipolis, Ohio. Filed Mar. 10, 1921. Serial No. 451,384. 3 Claims. (Cl. 280—87.5.)



2. In a vehicle of the character described, the combination of a vehicle frame, a fifth wheel member carried by said frame, a bracket formed integral with said fifth wheel member and projecting downwardly therefrom, an axle pivoted to said fifth wheel member, a bracket formed integral with said axle and projecting downwardly therefrom substantially aligned with the bracket of said fifth wheel member, the said fifth wheel member bracket having an opening therein, the bracket of said axle being forked, a steering post rotatably mounted in the opening in said fifth wheel bracket, and an eccentric at the free end of said steering post fitting into the forked end of the axle bracket.

1,422,285. ANTISKID DEVICE. WALTER L. MAJORS, St. Louis, Mo. Filed Mar. 24, 1920. Serial No. 368,352. 9 Claims. (Cl. 188—2.)

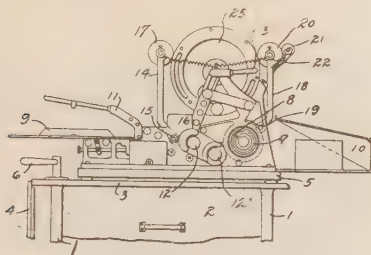


4. In a device of the character described, the combination of a pair of rotary spiders, a shaft with which they move in unison, means for actuating the same, the said actuating means consisting of a tire-grip, means for forcing the same into contact with the tires, the said spiders having each thereon such tire-grip, and an arm for hoisting the car.

1,422,286. MIMEOGRAPH ATTACHMENT. WALTER L. MAJORS, St. Louis, Mo. Filed Mar. 31, 1920. Serial No. 370,193. 7 Claims. (Cl. 101—175.)

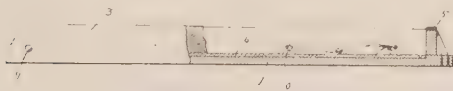
1. In an apparatus adapted to print in different colors, the combination of a printing member having ridges or pro-

jections, and adjoining rolls having depressions and parts projecting relative to the said depressions, the said ridges



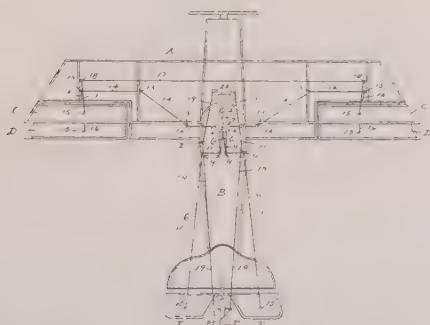
being composed of individual elements or blocks adapted to vary the same as to length, and a tongue adapted to hold the said elements.

1,422,287. FLY EXTERMINATOR. EDWARD J. MARCHAND, Duluth, Minn. Filed Aug. 27, 1921. Serial No. 495,996. 1 Claim. (Cl. 43—112.)



A device of the character described comprising a shallow elongated open receptacle, means for attracting flies in the bottom of the receptacle, spaced non-insulated electric wires transverse the opening, an open electric circuit associated with the wires, side walls upon the longer sides of the receptacle, one of said side walls being pivotally attached at one end whereby to conveniently remove the dead flies when collected within the receptacle.

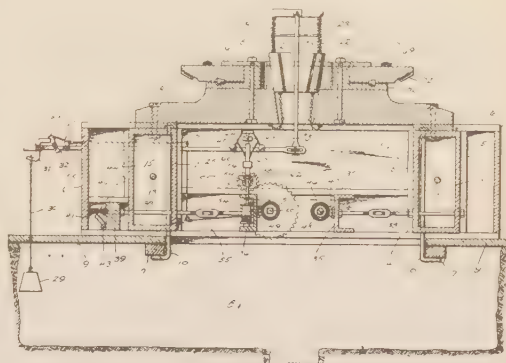
1,422,288. CONTROLLING MECHANISM FOR FLYING MACHINES. ROBERT E. MITTON and WAYNE M. BRALEY, Salt Lake City, Utah, assignors, by direct and mesne assignments, to Mitton-Braley Aero-Plane Control Co., Salt Lake City, Utah, a Corporation of Utah. Filed Feb. 4, 1920, Serial No. 356,213. Renewed May 15, 1922. Serial No. 561,168. 4 Claims. (Cl. 244—29.)



1. A controlling mechanism for flying machines of the character described, in combination with a base or support sustaining a pivot, the pivot, a rod running through said pivot for supporting the pilot's seat, a counter balance mounted on lower end of said rod in such a way that it may revolve freely to decrease friction with the sides of the base or support, the tendency of said counter balance to hang straight downward actuating the controlling surfaces for the maintenance of stability and holds the pilot's seat level.

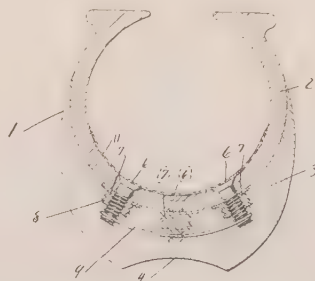
300 O. G.—17

1,422,289. GRIPPING DEVICE. JOSEPH F. MOODY, Ranger, Tex. Filed Dec. 17, 1920. Serial No. 431,443. 13 Claims. (Cl. 255—35.)



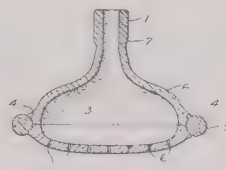
1. In a well-drilling appliance, a work gripping means, and means controlled by speed of descent of the work for placing the gripping means in operative position.

1,422,290. TIRE CASING. DANIEL MORIARTY, Oakland, Calif. Filed Mar. 14, 1922. Serial No. 543,701. 5 Claims. (Cl. 752—17.)



5. A tire casing comprising an inner member of fabric material, a rubber tread for the same, a plurality of screws extending through the fabric into the rubber having nuts thereon adjacent the fabric for firmly holding the screws to the latter, reinforcing wires between the screws within the rubber and a layer of asbestos inside the casing for preventing heat to spread from the screws to the inner tube.

1,422,291. BATH SPRAY. JAMES A. MULHERIN, St. Louis, Mo., assignor of one-third to Henry D. Delkeskamp. St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,166. 2 Claims. (Cl. 299—141.)



1. A bath spray comprising a hollow head formed from soft rubber provided in its outer edge with a groove, and a ring of hard rubber detachably received in said groove and constituting a stiffening means for said head.

1,422,292. STAIN COMPOSITION. ALEXANDER MURRAY, Marietta, Ohio, assignor to The Marietta Paint & Color Company, Marietta, Ohio, a Corporation of Ohio. Filed July 13, 1920. Serial No. 395,924. 5 Claims. (Cl. 134-48.)

4. A stain comprising a solution of a dyestuff, a projective colloid, water, and a plurality of organic liquids, at least one of which is readily water-soluble, and at least one other of which is not, such organic liquids being incapable of destroying either the soap or the said dyestuff and incapable of readily dissolving dried glue.

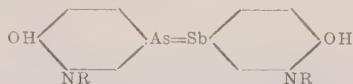
1,422,293. CAR-COUPLING RELEASE RIGGING. GEORGE E. MURRAY, Battle Creek, Mich., assignor to Walter P. Murphy, Chicago, Ill. Filed Apr. 26, 1920. Serial No. 376,752. 1 Claim. (Cl. 213-59.)



The method of transforming the usual one piece rotatably mounted lock operating rods of car couplers having a horizontally extending eye in its crank arm, which consists in twisting said eye substantially 90 degrees so that the eye extends vertically, whereby said vertically extending eye and the lock pin may be connected by means of a single closed split link.

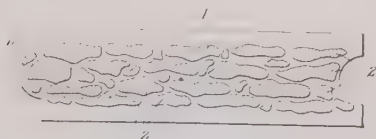
1,422,294. COMPLEX ARSENO-STIBINO COMPOUNDS AND PROCESS OF MAKING THE SAME. CHESTER NEWTON MYERS, Valley Falls, N. Y., assignor to Herman A. Metz, New York, N. Y. Filed Apr. 21, 1921. Serial No. 463,327. 12 Claims. (Cl. 260-11.)

12. Arseno-stibino compounds comprising a brownish yellow amorphous powder readily soluble in cold water and having the formula



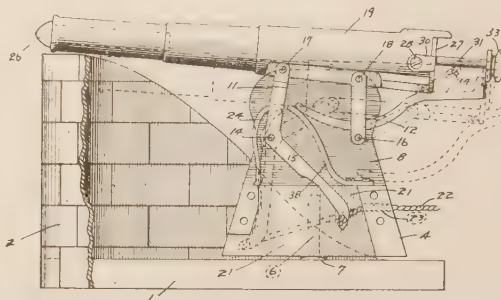
the alkalinized solutions of said compounds being suitable for intravenous injection.

1,422,295. PLATE FOR USE IN LINING BURGLAR-PROOF VAULTS AND SIMILAR PURPOSES. FRANCIS J. NAPOLITAN, Jersey City, N. J., assignor to American Abrasive Metals Company, a Corporation of New York. Filed Aug. 13, 1921. Serial No. 492,202. 2 Claims (Cl. 109-1.)



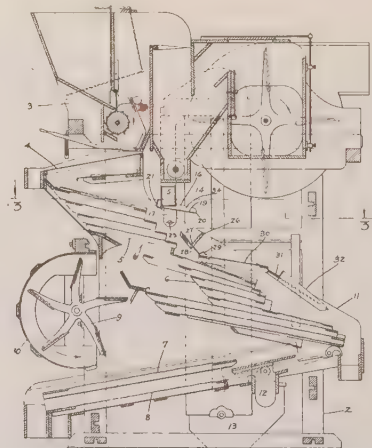
1. As a new article of manufacture a plate for use in forming bank vaults and similar purposes which plate comprises a matrix of cast iron or other metallic material in which are embedded closely packed masses each comprising fused and crystallized aluminum oxide in the form of a graded aggregate.

1,422,296. FORT DISAPPEARING GUN. CYRILL OTTO-LINI, Calistoga, Calif. Filed Aug. 11, 1921. Serial No. 491,390. 5 Claims. (Cl. 124-12.)



1. In a toy gun, a barrel, a carriage supporting the same comprising a plurality of pivotal supporting links having means associated therewith for thrusting the barrel upward and forward, spring means within the barrel for imparting a forward thrust to a projectile, a trigger supported on the barrel for setting the spring, and means opposing the forward thrust of the trigger for tripping the same.

1,422,297. GRAIN-FEEDING SPREADER. RICHARD L. OWENS, Minneapolis, Minn. Filed Nov. 18, 1921. Serial No. 516,136. 3 Claims. (Cl. 130-15.)

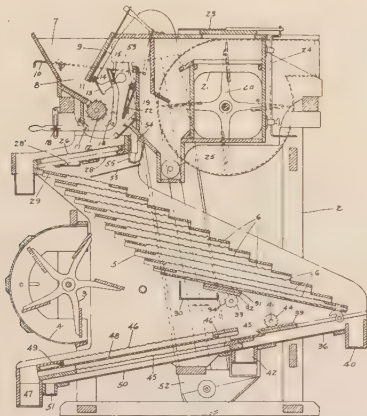


1. A spreader and feeder comprising in combination a plate having a front feeding edge, a diagonally arranged rear wall and means for supporting said plate, and permitting adjustment thereof both longitudinally and laterally, for the purpose set forth.

1,422,298. GRAIN SEPARATOR. RICHARD L. OWENS, Minneapolis, Minn. Original application filed Dec. 12, 1917, Serial No. 296,783. Divided and this application filed Nov. 18, 1921. Serial No. 516,137. 5 Claims. (Cl. 130-15.)

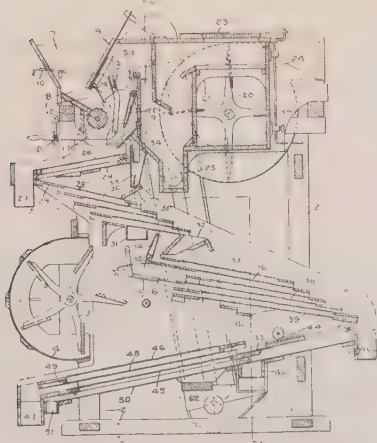
1. In a grain cleaning machine, the combination, with a grain delivering hopper, of a plurality of sieves arranged in an inclined gang; means for delivering the grain in a sheet upon the upper sieve of the gang, and passing through and over the sieves of the gang, an oppositely inclined screen arranged beneath the upper portion of the lower sieve of the gang, an inclined deck arranged beneath the lower portion of said lower sieve, a repeat elevator arranged to receive material from said

inclined deck, and an adjustable repeat board arranged to selectively divide the material passing through the



lower portion of the lower sieve of said gang between said repeat spout and the oppositely inclined screen.

1,422,299. GRAIN SEPARATOR. RICHARD L. OWENS, Minneapolis, Minn. Filed Dec. 12, 1917, Serial No. 206,783. Renewed Apr. 17, 1922. Serial No. 553,915. 23 Claims. (Cl. 130—15.)

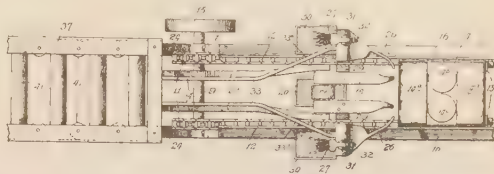


4. In a grain cleaning machine, a hopper, primary and secondary gangs of sieves whereto the material is delivered by said hopper, and a gate interposed between said gangs for selectively directing the material falling through the sieves of the upper gang upon the upper sieves of the lower gang or the lower sieves of said lower gang.

1,422,300. APPARATUS FOR SEALING BOXES. AMAND PAPE, Willow Springs, Ill. Filed Apr. 9, 1920. Serial No. 372,451. 10 Claims. (Cl. 93—7.)

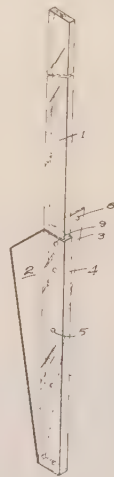
1. In a box sealing machine, the combination of a conveyor adapted to receive and successively advance filled boxes and comprising members underlying the side margins of the box and fixed to leave the intermediate

portions of the bottom of the box exposed with the bottom flaps between them, and means for folding the bottom



flaps upwardly and between said members and securing them to seal the bottom of the box.

1,422,301. POST FOR WIRE FENCING. CLARK PARKER, Baulkham Hills, New South Wales, Australia; Ethel Parker administratrix of said Clark Parker, deceased. Filed Apr. 30, 1919. Serial No. 293,884. 1 Claim. (Cl. 189—29.)



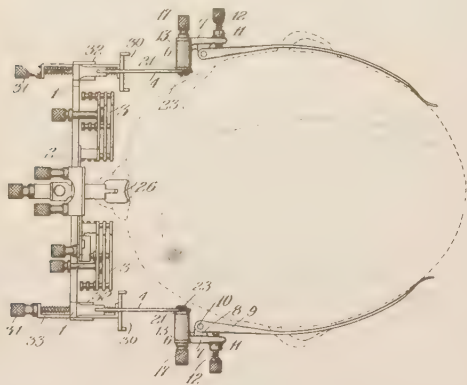
A metal fence post comprising a flat bar and a driving anchor riveted thereto, the anchor being triangular in side elevation and folded longitudinally to permit a groove to receive the post and contact therewith on both sides thereof so that the width of the anchor will extend transversely of the narrowest dimension of the post.

1,422,302. PIPE WRENCH. HOWARD PARKER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of New Hampshire. Filed July 31, 1920. Serial No. 400,396. 5 Claims. (Cl. 81—64.)



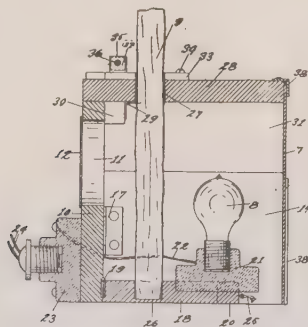
1. A pipe wrench including a handle and a flexible band secured at one end and detachably connected at its other end to said handle, said band having an effective gripping action throughout its engagement with the pipe and including extensible means permitting of extension of said band to prevent injury to the pipe when the force applied is excessive.

1,422,303. OPHTHALMIC TEST-LENS FRAME. MAX POSER, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Original application filed Mar. 15, 1916, Serial No. 84,358. Divided and this application filed Jan. 13, 1919. Serial No. 270,792. 10 Claims. (Cl. 88—20.)



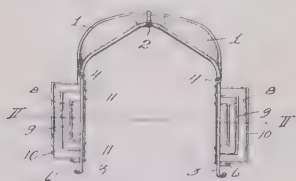
1. In an ophthalmic lens frame, the combination with a head piece, of a laterally flexible member projecting from said head piece adjacent an end portion thereof, a pivot pin carried by said member, and a temple pivotally supported by said pin for adjustment in a substantially vertical plane.

1,422,304. TREE HOLDER. GEORGE B. POWERS, Superior, Wis. Filed Mar. 8, 1921, Serial No. 450,698. Renewed Jan. 30, 1922. Serial No. 532,857. 6 Claims. (Cl. 248—38.)



2. In a device of the class described, a back having a hole therein, a base member hingedly secured to the back, a socket on said base member adapted to be folded into said hole, and means for supporting a tree on said base member.

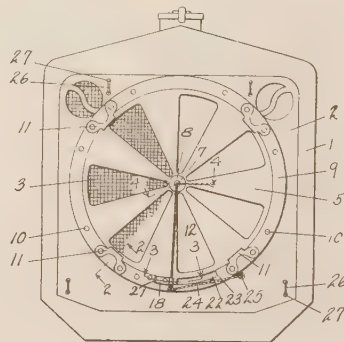
1,422,305. AUTOMOBILE HOOD. RICHARD E. ROBINSON, Kansas City, Mo. Filed Sept. 10, 1920. Serial No. 409,426. 1 Claim. (Cl. 180—69.)



A motor car hood provided with openings at its sides, and wings extending outward at the rear margins of such

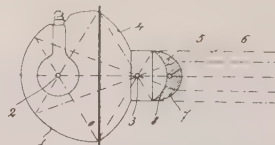
openings, each succeeding wing increasing in length and width in such proportion that there will be a greater quantity of air entering each succeeding opening from the front to the rear of the hood.

1,422,306. RADIATOR COVER. WALTER S. RUNNELS, Kalamazoo, Mich. Filed Mar. 18, 1921. Serial No. 453,240. 5 Claims. (Cl. 257—132.)



2. In a radiator cover, the combination of a cover plate having shutter openings therein, a circular shutter mounted on said cover plate by means of a tubular pivot and having openings therein adapted to be brought into register with the openings of said cover plate; a stop member on said shutter, a spring having an offset therein engaged in said shutter pivot, the inner arm of said spring being engaged with said cover plate and its outer arm being secured to said shutter whereby the shutter is held normally open, and means for closing said shutter attached to the outer arm of said spring.

1,422,307. PROJECTING DEVICE FOR BEAMS OF LIGHT. SALVATORE SALTO, Milan, Italy. Filed Jan. 19, 1920. Serial No. 352,377. 4 Claims. (Cl. 240—41.)



1. A projector for light rays comprising a curved reflecting surface, a concentrated source of light located at a focus of said surface, and a lens having its outer surface of ellipsoidal form located with a focus of the ellipsoid coincident with a focus of the reflecting surface and its inner surface of spherical form and centre also coincident with said last mentioned focus.

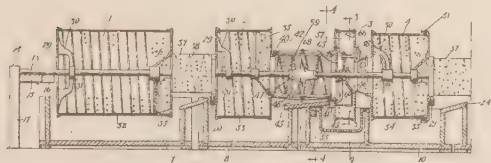
1,422,308. COMBINED FRICTION AND SPANNER WRENCH. JOHN A. SCHLEICHER, Saginaw, Mich., assignor to The Lufkin Rule Company, Saginaw, Mich., a Corporation of Michigan. Filed Nov. 21, 1921. Serial No. 516,572. 5 Claims. (Cl. 81—3.)



1. A combined friction and spanner wrench for a micrometer gage formed from a single piece of material

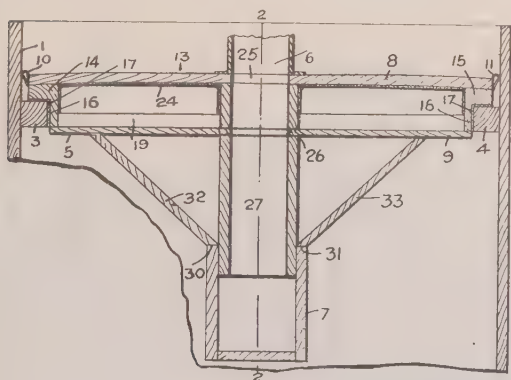
comprising a resilient embracing portion and a bifurcated portion for adjusting members of the gage without mutilation or destruction thereof.

1,422,309. APPARATUS FOR CLEANING ARTICLES. GEORGE W. SCHWEINSBERG and MASON I. DOYLE, Brooklyn, N. Y., assignors to U. S. Electro galvanizing Company, a Corporation of West Virginia. Filed July 16, 1919. Serial No. 311,157. 9 Claims. (Cl. 266—7.)



1. In a machine for treating material by liquids in successive tanks, the combination with a unitary rotary member comprising a plurality of containers adapted to tumble and advance the material in contact with the liquids in the tanks in succession, of rotatable draining mechanism intermediate between and connecting said containers and having means for tumbling and advancing the material from one container into the next and draining the liquid back into each preceding tank from the articles.

1,422,310. PHONOGRAPH. JAMES SHAW, Toronto, Ontario, Canada. Filed Sept. 2, 1921. Serial No. 497,908. 2 Claims. (Cl. 274—2.)

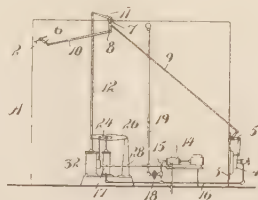


1. In a phonograph, a hollow bar-like member supported at its ends within a phonograph cabinet and having an orifice in its upper wall around which a tone arm base is adapted to be secured and having an orifice in its lower wall in vertical alignment with the orifice of the upper wall and around which lower orifice a horn is adapted to be secured for suspension, and a tubular connection extending between the walls and into the orifices.

1,422,311. AUTOMATIC DRAFT REGULATOR. CARLYLE J. SHERWOOD, San Francisco, Calif., assignor to Coen Co., San Francisco, Calif., a Corporation of California. Filed Sept. 24, 1919. Serial No. 326,105. 7 Claims. (Cl. 158—45.5.)

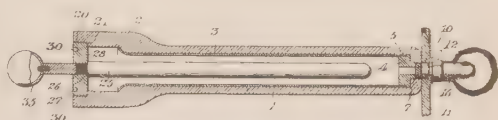
1. The combination with a boiler and furnace, an oil burner for the furnace, means for delivering oil under variable pressure to the burner, a damper adapted to regulate the air flow through the furnace, an enclosed

reciprocally mounted member, means actuated by pressure variations in the oil adapted to admit oil to one side or



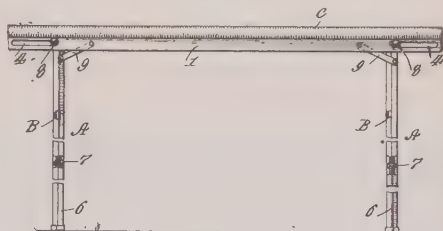
another of the reciprocally mounted member to impart movement thereto, and means for transmitting said movement to open and close the damper.

1,422,312. ELECTRIC CONDENSER. FRANKLIN S. SMITH, Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1919. Serial No. 276,559. 12 Claims. (Cl. 250—41.)



2. An electric condenser comprising an air-tight container of dielectric material, a metal lining upon the inner surface of the said container, said lining having connection at one end with a metallic part projecting through the wall of one end of said container to the exterior thereof and the other open end of said lining terminating in opposed spaced relation to the opposite closed end of said container, and a metal member secured to the said opposite closed end and projecting there-through into the space inclosed by said metal lining.

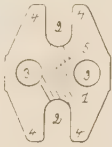
1,422,313. FOLDING TABLE. HUGH B. SMITH, University Place, Nebr. Filed Mar. 25, 1919. Serial No. 284,897. 1 Claim. (Cl. 45—11.)



A table including in combination, a pair of folding leg sections each consisting of two bars which are pivotally connected near their lower ends, two side bars having their upper ends recurved to provide an open seam tube with a slot near each end having a lateral extension, a pivot fastener fixed to each leg end arranged to work in a slot, a brace bar pivotally fixed to each end of said side bars and leg sections to hold said legs perpendicular, folding braces each consisting of two bars pivotally connected at their inner ends and having their outer ends pivotally fixed to said leg sections one of said braces having its end extending over to provide a hook for engagement with said other brace, a fabric top having side seams for engagement with said open seam tubular members, a rod held in said seams and said tubular members.

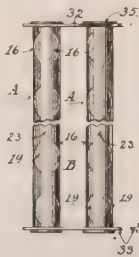
and a pivotal connecting member uniting said leg sections near the lower ends whereby increasing the leverage of said leg sections or in holding said top taut, all as and for the purpose set forth.

- 1,422,314. PROCESS OF MAKING WIRE-ROPE CLAMP CLIPS. GEORGE C. SOULE and JOHN B. WOODBURY, South Portland, Me. Filed Mar. 22, 1920. Serial No. 367,923. 1 Claim. (Cl. 113—116.)



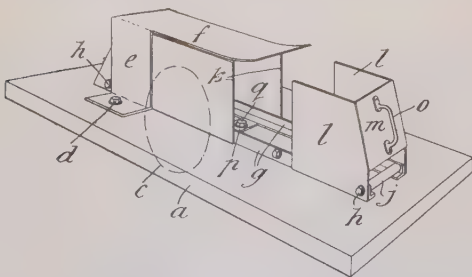
The process of making clamp members for wire rope clamps of the class described which consists of punching from a generally rectangular plate a pair of holes separated by the thickness of the rope and a pair of opposite slots extending in from the edges of said plate and at right angles to a line passing the center of said holes to form a pair of ears and finally turning said ears upwardly substantially at right angles to the body of said plate.

- 1,422,315. RADIATOR FOR MOTOR VEHICLES. CHARLES F. SPERY, Chicago, Ill. Filed Nov. 25, 1919. Serial No. 340,635. 8 Claims. (Cl. 257—129.)



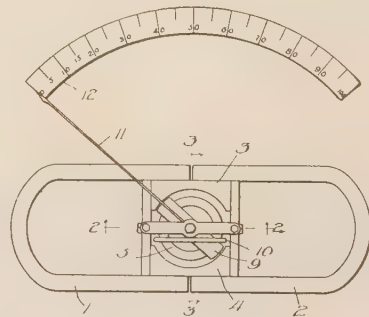
1. A radiator core, comprising a plurality of transverse series of vertically disposed, spaced apart, water tubes arranged in alignment from front to rear, said water tubes having a tapering transverse sectional contour and having rounded edges, the narrower part of the tubes being at the front of the core, the spaces between adjacent water tubes affording air conduits of gradually decreasing width there being in the converging walls of said tubes outwardly projecting diagonal protuberances to increase the cooling area of said tubes.

- 1,422,316. GUARD FOR CIRCULAR SAWS. GILBERT ELPHINSTONE HARVEY SPILLER, Eaglehurst, Chagford, England. Filed Oct. 3, 1921. Serial No. 504,940. 4 Claims. (Cl. 143—159.)



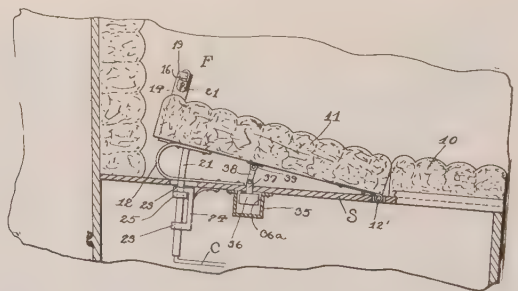
1. A guard for a circular saw working in a slot in a saw bench, consisting of a casing fixed to the bench and a drawer adapted to slide in the casing and having two plates spaced apart on each side.

- 1,422,317. ELECTROMAGNETIC MEASURING APPARATUS. JOSEPH C. STANGIER, Chicago, Ill.; Bertha Stangier administratrix of said Joseph C. Stangier, deceased. Filed Mar. 16, 1918. Serial No. 222,931. 8 Claims. (Cl. 171—95.)



1. In a measuring instrument of the kind described, for measuring a momentary flow of electricity, a magnetic field member, an indicating member including a coil pivotally mounted in the magnetic field to oscillate freely in the field when no current is flowing therein, and means for producing a restraining force on the indicating member which ceases as the indicating member comes to rest, and whereby the indicating member remains at its extreme indicating position.

- 1,422,318. AUTOMATIC SWITCH FOR CIRCUITS OF INTERNAL-COMBUSTION ENGINES. SIDNEY STEVENS, Millinocket, Me. Filed Oct. 6, 1920. Serial No. 415,060. 5 Claims. (Cl. 180—82.)

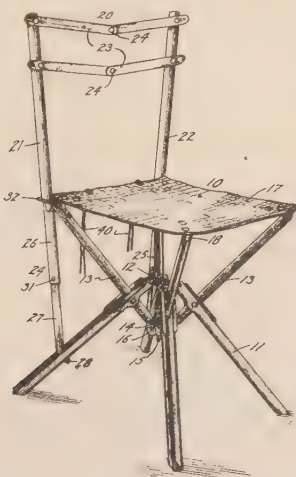


1. The combination with a vehicle embodying an internal combustion engine, a circuit therefor and a driver's seat embodying a vertical shiftable section, of means operated by the elevation of said seat for breaking the circuit of the engine and by the lowering of said seat for completing the circuit of the engine and means for locking said seat in elevated position comprising, a member secured to said shiftable seat section and embodying an angular portion provided with an opening, a member secured to the frame-work of the vehicle and embodying an angular portion against which the first-named angular portion abuts when the seat is in the elevated position, said second-named angular portion being provided with an opening aligned with the opening of the first-named angular portion and coacting therewith to receive the hasp of a padlock.

- 1,422,319. FOLDING CAMP CHAIR. FRANK M. STOLL, Denver, Colo. Filed July 1, 1921. Serial No. 481,827. 3 Claims. (Cl. 155—136.)

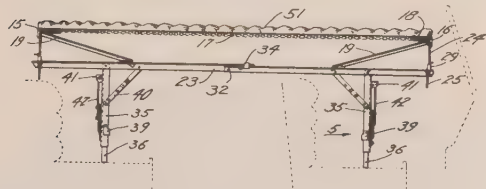
1. The combination with a chair of the class described of a back-rest consisting of two upright members flexibly

joined together by resilient means, adapted to be detached from said chair and collapsed, foldable supports for



supporting said back-rest on said chair, said foldable supports being adapted to fold within and simultaneously with said chair.

1,422,320. PORTABLE FOLDING BED. FRANK M. STOLL, Denver, Colo. Filed July 22, 1921. Serial No. 486,788. 5 Claims. (Cl. 5—5.)



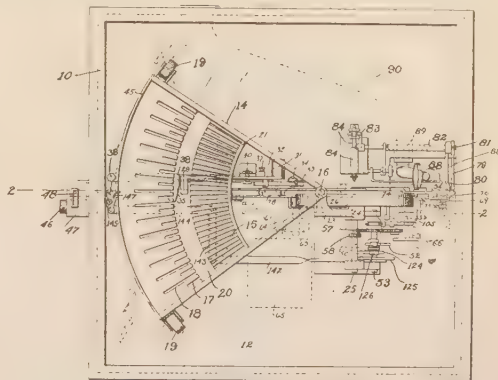
1. The combination, in a bed of the class described, of end bars supporting a flexible spring structure, said end bars being detachably braced and locked to foldable longitudinal bars; means for locking said cross bars to said longitudinal bars consisting of links pivoted at their upper extremities to said end bars and adapted to pass at their lower extremities through openings in said longitudinal bars, obstructions on said lower extremities adapted to prevent their removal from said openings, tongues or wedges slidably mounted on said links adapted to bring said obstruction into action; legs pivotally fastened to and braced from said longitudinal bars and adapted to fold thereon; cross bars connecting and braced from the pairs of legs at each end of said bed, said cross bars adapted to be disconnected at their mid point and folded parallel to said legs.

1,422,321. AUTOMATIC PHONOGRAPH. HADWEN SWAIN, San Francisco, Calif. Filed Aug. 2, 1917. Serial No. 184,101. 32 Claims. (Cl. 274—10.)

19. An automatic phonograph with suitable record rack, runways, a vertical turntable, with its operating parts, together with an arm passing close to and across the face of the turn-table to place the record that has been played back into the rack, said arm having a suitable roller or projection to raise one end of the lower runway into normal position after a large record has been played.

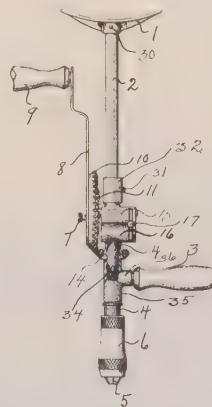
21. An automatic phonograph having a vertical turntable, a reproducer, a vertical reproducer arm, and a

counter weight therefor so disposed as to continuously give the reproducer needle a slight constant impetus toward the rotating axis of the record.



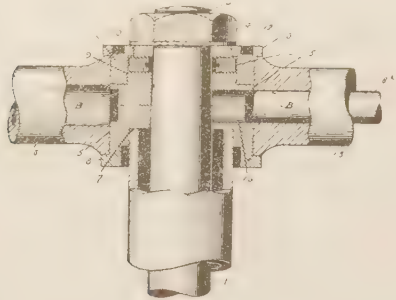
24. In a multiple disk phonograph, a turn-table, a tone arm adapted to operate in conjunction therewith, and a swinging rack adapted to hold a plurality of disk records in a vertical position and in radial relation to the pivotal center of said rack and from which the records may be delivered to the turn-table.

1,422,322. DRIVE FOR DRILLS AND SIMILAR TOOLS. WILLIAM THOMPSON and WILFRED J. ROY, Springfield, Mass., assignors to Consolidated Tool Works, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 9, 1920. Serial No. 415,754. 2 Claims. (145—67.)



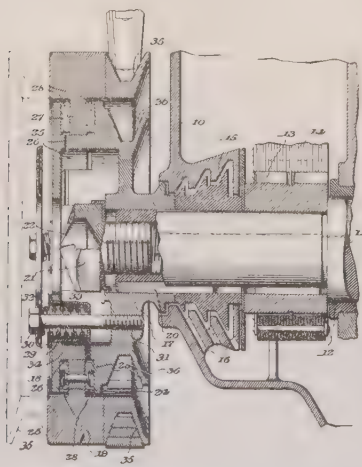
1. In combination, a casing comprising two adjacent notched socket members having sockets therein, a sleeve projecting from one socket member and adapted to be connected to a breast rest, a yoke projecting from the other socket member and secured to a sleeve adapted to support a revoluble spindle having a bevel gear secured thereto within the said yoke and adjacent the last mentioned socket member, a wheel having an outer bevel gear and an inner bevel gear, both of which are adapted to mesh with the first mentioned bevel gear, the said wheel having a spindle adapted to fit within either of the sockets of the said socket members so as to bring one or the other of its bevel gears into mesh with the first mentioned bevel gear, a reciprocating member mounted in a recess intermediate the said socket members, latch members pivoted to the said socket members the pivotal axes being parallel to the spindle and so connected to the said reciprocating member as to be operated by it, so that the said latch members are moved within or without the said sockets, the said spindle having a notch into which the said latches are adapted to fit so as to lock the same in the socket in which it is located.

- 1,422,323. STEERING WHEEL. WILLIAM LINCOLN TOBIAS, Toronto, Ontario, Canada, assignor to Joseph William McNab, Toronto, Ontario, Canada. Filed Sept. 29, 1920. Serial No. 413,634. 3 Claims. (Cl. 74—33.)



1. In a steering wheel, a steering post, a tube enclosing said post and terminating short of the top end of said post, a spider, a bushing keyed to said post and having the opening therethrough enlarged adjacent to the lower end thereof to receive said tube, said bushing being flanged around its lower end to form a support for said spider, said bushing also being reduced in thickness at its top end and threaded exteriorly, a cap threading over said top end and flanged to extend over the edge of said spider, and a bolt slidable in said spider and adapted to be projected into said bushing to prevent rotation of said spider.

- 1,422,324. VIBRATION DAMPER FOR HYDROCARBON MOTORS. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 17, 1919. Serial No. 271,591. 9 Claims. (Cl. 74—6.)

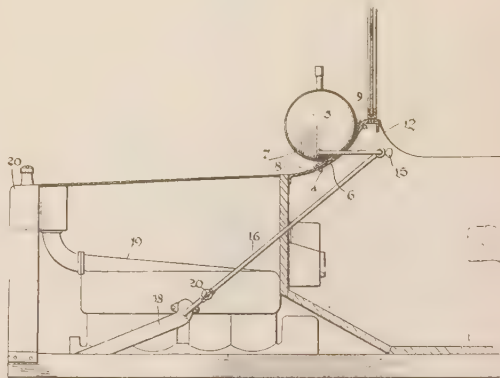


1. In combination, a shaft, an inner member having a pulley groove therein, an outer member having a pulley groove on its outer surface and a flange portion extending inwardly from its inner surface and adapted to engage said inner member, and means for securing said members together.

- 1,422,325. WATER TANK. EVANS WOOD, Tuttle, Idaho. Filed Aug. 31, 1921. Serial No. 497,327. 2 Claims. (Cl. 280—5.)

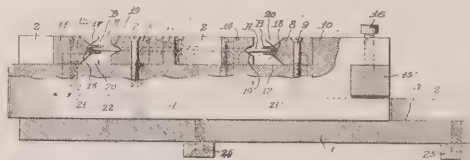
1. The combination with a motor vehicle having an internal combustion engine having a cooling system, said vehicle being provided with a cowl, of a tank secured on said cowl, a pipe extended rearwardly from the tank and

having a laterally projecting branch, a valve interposed in said branch and arranged within convenient reach of the vehicle operator, a forwardly directed pipe connected



to said branch and having a valve, and means to connect the forward end of the pipe to the cooling system of the engine.

- 1,422,326. MACHINE FOR ASSEMBLING FRAME AND SPRING MEMBERS. CORBAN H. ZILER, Windsor, Ontario, Canada, assignor of one-half to Leggett & Platt Spring Bed Company, Limited, Windsor, Ontario, Canada, a Corporation of Ontario, Canada. Filed July 10, 1920. Serial No. 395,234. 14 Claims. (Cl. 29—87.1.)

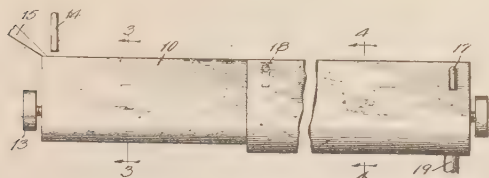


1. A machine for attaching a frame member to one coil of each of a plurality of coiled springs by forming said frame member into engagement with said coils, said machine comprising means for supporting a frame member and a plurality of springs with said frame member extending adjacent that portion of the coils of the several springs to be secured thereto, means adjacent each spring for forming said frame member into engagement with the adjacent portion of the coil of each spring, and means for simultaneously operating said forming means.

- 1,422,327. PROCESS OF GASSING LIQUORS WITH SO_2 . FRANK MORRISON ALLEN, Ridley Park, Pa., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,703. 3 Claims. (Cl. 23—1.)

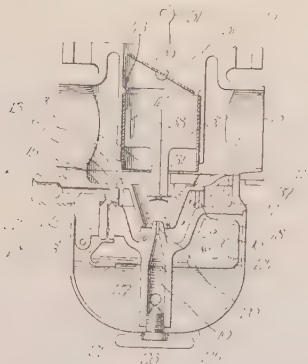
1. The process of gassing liquors with SO_2 which comprises introducing air under pressure not greatly above atmospheric pressure into a relatively small chamber containing molten sulfur and by controlling the velocity of the incoming air maintaining the temperature of the mixed gases moving from the chamber at approximately 550°F . and then introducing the mixed gases into a body of liquid, the dimensions of the chamber plus all air and gas conduits being such that the gases moving from the chamber are propelled with sufficient force to enable them to overcome the resistance of the liquor into which they are subsequently introduced.

1,422,328. MANUFACTURE OF GRAPE SUGAR. PAUL W. ALLEN, Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, a Corporation of Delaware. Filed Feb. 17, 1919. Serial No. 277,579. 5 Claims. (Cl. 127—10.)



3. Improvement in the method of making grape sugar from starch which consists in subjecting a sugar liquor which is free from protein impurities at a temperature of about 145° Fahrenheit and at a density of about 42° Baumé, to a beating operation in the air, which gives the sugar a frothy, porous consistency, and then allowing it to stand until crystallization takes place.

1,422,329. CARBURETOR. FRED E. ASELTINE, Detroit, Mich., assignor to Cadillac Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 2, 1916. Serial No. 75,641. 6 Claims. (Cl. 261—44.)

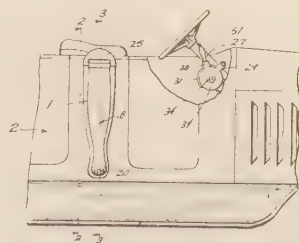


1. In a carburetor, the combination with a mixing chamber, a fuel nozzle arranged therein, said mixing chamber having primary and secondary air ports, means comprising a movable plate arranged in said chamber for directing a greater proportion of the total quantity of incoming primary air towards the sides of the chamber as said plate approaches said nozzle, and means movable with said plate for directing the flow of said incoming primary air towards said nozzle when said plate is in its position closest to said nozzle.

2. In a carburetor, the combination with a mixing chamber, a fuel nozzle arranged therein, a throttle, means for supplying primary air to said chamber including an upwardly flaring strangle tube the lower end of which surrounds and is spaced from said nozzle, means for supplying secondary air to said chamber including a vertically slidable air valve and a suction operated plate positioned in said strangle tube for lifting said valve, and means co-operative with said plate operating when the throttle is nearly closed for increasing the suction at the nozzle.

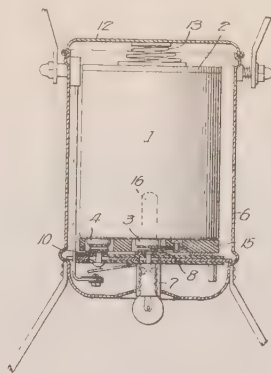
5. In a carburetor, the combination of a mixing chamber, a fuel nozzle arranged therein, said mixing chamber having primary and secondary air ports, a valve device for said secondary port, a tube arranged within said chamber tapering towards said nozzle, and provided with a deflector portion adjacent its lower end for directing the incoming primary air towards the center of said tube, a plate arranged within said tube and adapted to be actuated by the flow of air through the same, and means arranged on said plate and co-operating with said deflector portion for directing the incoming primary air towards said nozzle when said plate is in its position closest thereto.

1,422,330. DIRECTION INDICATOR FOR MOTOR VEHICLES. FRED M. ATHONS, Los Angeles, Calif. Filed June 2, 1920. Serial No. 386,010. 3 Claims. (Cl. 116—52.)



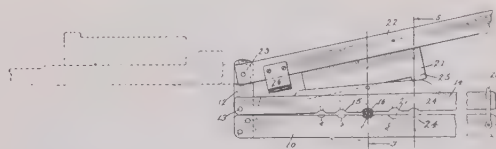
1. An indicator comprising a casing, bearings carried thereby, a shaft journaled in said bearings, a flexible spring connection between one of said bearings and said shaft, a semaphore having a support fixed on said shaft and a flexible connection secured to said shaft for rotating the same.

1,422,331. ADAPTER. FRANK T. BAIRD, Blue Island, Ill. Filed Jan. 13, 1921. Serial No. 436,944. 3 Claims. (Cl. 240—8.5.)



1. In a portable electric lantern, a lantern casing, a battery receptacle adapted to be inserted within it, fixed center contacts on the casing and on the receptacle, fixed outer contacts on the casing and receptacle, an insulating plate adapted to intervene between the casing and the receptacle, said plate having one hole at the center and another at the same distance from the center as the said fixed outer contacts, and double resilient contacts carried by said plate at said holes, one of each pair of resilient contacts pressing upward and the other downward for firmly engaging the respective fixed contacts when the parts are assembled.

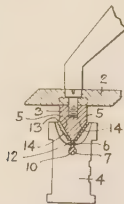
1,422,332. BELTING TOOL. ANTONIO G. BAVÁ, San Francisco, Calif. Filed June 10, 1920. Serial No. 387,976. 7 Claims. (Cl. 1—50.)



1. A belt stapling device comprising a fixed jaw with transverse belt receiving grooves, a clamping jaw pivotally connected to the fixed jaw and having portions engage-

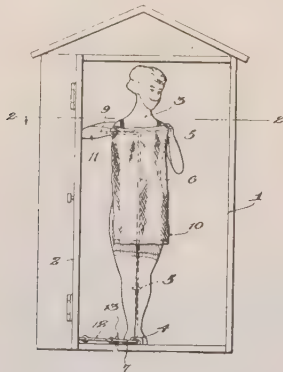
able with the belt ends disposed within the grooves, and a pressure lever fulcrumed near the first named pivot and movable to force a staple through the ends of a belt placed in one of said grooves.

- 1,422,333. MATRIX AND DISTRIBUTING APPARATUS FOR TYPE-CASTING MACHINES. ADOLPH BECKER, Wheeling, W. Va. Filed Apr. 23, 1921. Serial No. 463,867. 10 Claims. (Cl. 199—37.)



1. In a type-casting machine, the combination with a set of matrices each having a V-shaped notch, and having an opening adjacent to the said notch and communicating therewith by a restricted channel, of a transfer member having a beaded strip adapted to enter the said openings and to suspend the said matrices during transfer without engaging the sides of said V-notches.

- 1,422,334. TOY. STEPHEN S. K. BIROSCAK, Bridgeport, Conn. Filed Apr. 25, 1921. Serial No. 464,118. 3 Claims. (Cl. 46—40.)



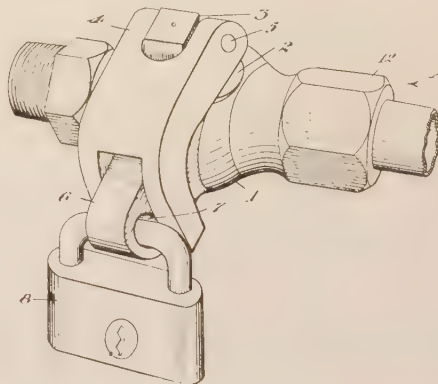
1. A toy comprising a housing having a door hinged for opening movement, a figure fixed to the floor of the housing and provided on its back with a vertical bearing, a shaft journaled in the bearing and having its lower end extended forwardly and secured to the free edge portion of the door and its upper end curved about one side of the figure and terminating in advance thereof, a body member of the figure free thereof, a member secured to the free end of the curved arm and to the opposite side of the body for being draped across the figure by movement of the curved arm upon opening the door.

- 1,422,335. METHOD OF MAKING CHLOROSULPHONIC ACID. THOMAS LYNTON BRIGGS, deceased, late of Flushing, N. Y., by Isabelle M. Briggs, executrix, Flushing, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Oct. 4, 1921. Serial No. 505,361. 8 Claims. (Cl. 23—1.)

1. Method of making chlorosulphonic acid which consists in separately conducting controlled volumes of contact gas and of dry hydrochloric acid gas to a mixing chamber and causing the said gases to become mixed therein, conducting the resulting chlorosulphonic acid vapors, together

with accompanying fluids and gases, all in the same direction through a long passage of restricted diameter and withdrawing the accumulating liquid chlorosulphonic acid to storage.

- 1,422,336. VALVE LOCK. JACK CATHRILL, Los Angeles, Calif. Filed Aug. 11, 1919. Serial No. 316,914. 1 Claim. (Cl. 70—125.)

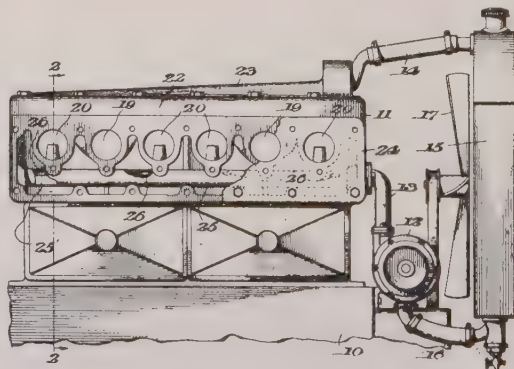


In a valve, a valve casing, a keeper lug on said casing, a rotary valve in the casing projecting from the side thereof at right angles to its length, an arm pivoted on said valve having a forked outer end adapted to extend astride a portion of the valve casing when the valve is in its open position and to extend astride the keeper lug when valve is in its closed position, and means for locking said arm on the keeper lug.

- 1,422,337. OXYSALT COMPOSITION. CHARLES CATLETT, Staunton, Va. Filed Aug. 3, 1921. Serial No. 489,608. 9 Claims. (Cl. 106—29.)

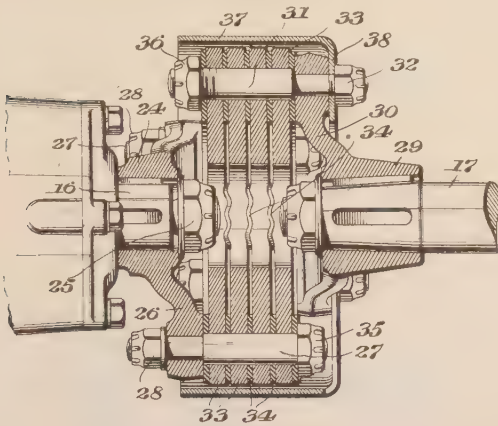
1. The process of preparing an oxychlorid composition of the character described which comprises commingling solid lime and solid calcium chlorid, both in finely divided form, under reacting conditions.

- 1,422,338. HYDROCARBON MOTOR. HAROLD D. CHURCH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 27, 1918. Serial No. 231,124. 8 Claims. (Cl. 123—177.)



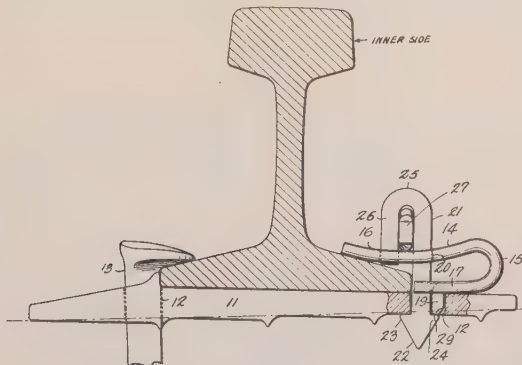
1. In a hydrocarbon motor, the combination with a jacketed cylinder having an exhaust valve seat, of means for feeding water to the interior of the cylinder jacket directly to a point between the cylinder wall and said seat and withdrawing it from the opposite side of said seat.

- 1,422,339. SHAFT COUPLING. HAROLD D. CHURCH,
Detroit, Mich., assignor to Packard Motor Car Company,
Detroit, Mich., a Corporation of Michigan. Filed Jan.
2, 1919. Serial No. 269,303. 6 Claims. (Cl. 64—96.)



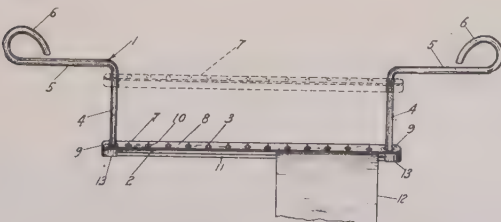
6. A coupling comprising shafts each having radial arms, bolts on said arms extending lengthwise of the shafts, the bolts of one shaft overlapping the bolts of the other shaft, coupling parts carried by said bolts, means for securing said parts on said bolts, a shield carried by one shaft and extending around said bolts, and means independent of the first mentioned securing means for securing said shield to said shaft.

- 1,422,340. ANCHOR AND CLIP FOR RAILS AND THE LIKE. FRANCIS W. COOPER and HENRY STEADWORTHY, Montreal, Quebec, Canada. Filed Dec. 1, 1921. Serial No. 519,201. 21 Claims. (Cl. 238—349.)



1. A device of the class described, comprising a member hooked at both ends to engage at one end under a plate and at the other end to overlies a rail base, and means to hold said hook member in position.

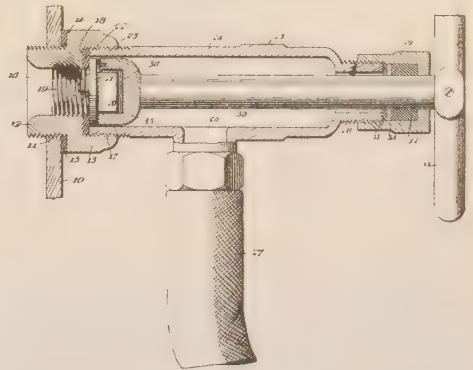
- 1,422,341. PHOTOGRAPHIC FILM RACK. GUY C. Cross, Denver, Colo. Original application filed Jan. 8, 1920, Serial No. 350,201. Divided and this application filed Sept. 21, 1920. Serial No. 411,699. 3 Claims. (Cl. 95—100.)



1. As a new article of manufacture, a film rack comprising a U-shaped frame, a clamping bar having guides carried

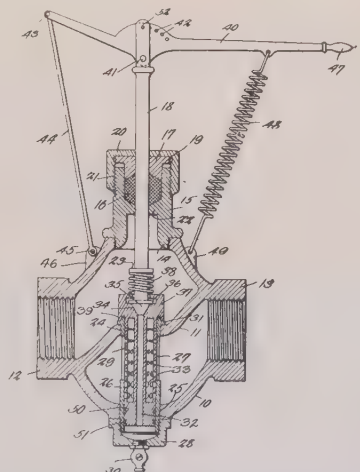
by its ends for slidably engaging the side bars of the frame, said side bars terminating in horizontal arms, as and for the purpose set forth.

- 1,422,342. BUNG FOR TANK FILLING AND DISCHARGE FITTINGS. JOSEPH DARLING and WARREN W. CURRY, Chicora, Pa. Filed Dec. 2, 1919. Serial No. 341,944. 1 Claim. (Cl. 220—39.)



▲ bung comprising a bushing having an externally threaded reduced inner end adapted to extend through bush hole of the container, said reduced and threaded portion defining an annular shoulder adapted to be seated against the outer face of the container in fluid tight relation, said inner end also having a threaded central bore, the outer end of the bushing expanded and having an enlarged internally threaded counter bore defining an annular shoulder at its inner end, a packing ring seated on this shoulder, a plug having a wrench head at its outer end and the inner end threaded to be seated in the first mentioned bore of the bushing, an annular collar extending laterally from said plug intermediate its threaded portion and the wrench head, said collar adapted to be seated on said packing ring, the diameter of said collar being sufficiently less than the diameter of the counter bore to permit passage of the threaded end of a nozzle to be screwed into the counter bore past the collar and against the aforesaid packing ring.

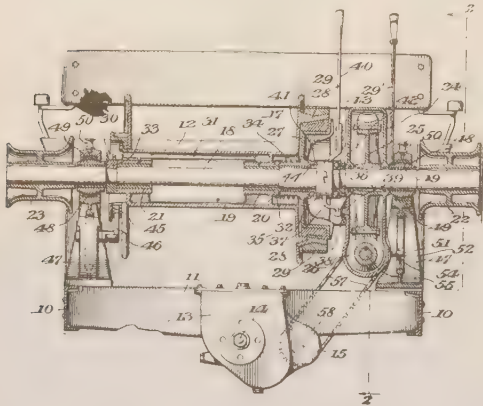
- 1,422,343. PISTON GLOBE VALVE. ELMER C. DAVIES,
Portland, Oreg. Filed Feb. 19, 1920. Serial No. 359,784.
7 Claims. (Cl. 277—37.)



5. A valve comprising a body having an inlet and an outlet, a web extending between the inlet and outlet, a

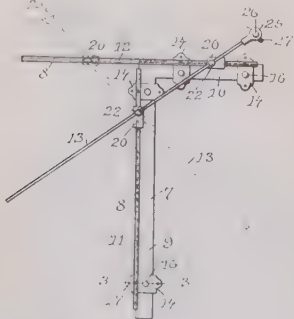
cage having longitudinal openings and seated at one end in the web and at its other end in the body, a piston slidable within the cage and having openings for communication with the openings in the cage, said piston being hollow, means at one end of the piston and cooperating with one end of the cage for normally preventing flow of fluid under pressure through the piston, said piston having a longitudinal passage extending therethrough spaced from the wall of the piston, and a yielding held valve normally closing said passage at one end.

1,422,344. MOTOR-VEHICLE HOIST DEVICE. FRANK H. DEWEY, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 15, 1918. Serial No. 228,641. 8 Claims. (Cl. 74-36.)



1. In a motor vehicle, the combination with the frame comprising side members, and a driving shaft supported by the frame, of a pair of uprights supported on said side members, a hoisting device comprising a shaft and drum, spherical bearings for said shaft in said uprights, gearing having a casing supported by said shaft and loosely connected to one of said uprights to prevent rotation of the casing, and a driving connection from said driving shaft to said gearing.

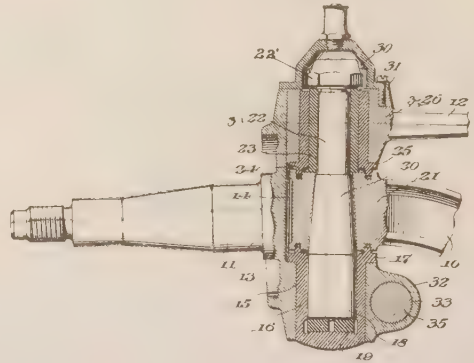
1,422,345. TRAMMEL. WILLIAM DOUGLAS, Pawtucket, R. I. Filed Mar. 7, 1921. Serial No. 450,132. 5 Claims. (Cl. 33-31.)



1. The combination with a square, of a trammel having a guide bar on one arm of the square, a guide bar on

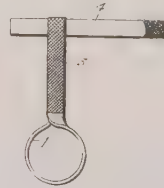
the other arm of the square, a slide on each guide bar, a traverse bar and means for adjustably securing the traverse bar to the slides.

1,422,346. MOTOR VEHICLE. FRANK J. DRUAR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 10, 1919. Serial No. 275,940. 12 Claims. (Cl. 280-96.1.)



1. In a steering knuckle, the combination with a knuckle member comprising an axle and a pivot pin, of a second knuckle member comprising a wheel spindle having a section formed with an interiorly curved seat, a separately formed pivot bearing section surrounding said pivot pin and having an exteriorly curved surface fitting said seat, and laterally extending means detachably securing said bearing section in place.

1,422,347. CIGARETTE HOLDER. THOMAS DUNCAN, East Chicago, Ind. Filed Jan. 3, 1920. Serial No. 349,143. 2 Claims. (Cl. 131-51.)

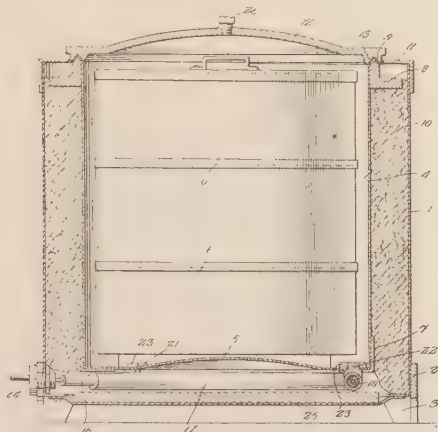


2. A cigarette holder comprised solely of a length of metal formed with a split ring and a pair of flat elongated straight cigarette gripping jaws, the inner portions of said straight flat jaws being formed with quarter twists whereby the axis of the cigarette between the jaws is at right angles to the axis of the split ring and whereby the spreading of the jaws is accompanied by a lateral movement of the ends of the split ring with relation to each other, the outer surfaces of said jaws being roughened.

1,422,348. ELECTRIC STEAM-PRESSURE COOKER. WAYNE A. DUNCAN, Chicago, Ill. Filed Mar. 14, 1922. Serial No. 543,757. 5 Claims. (Cl. 219-35.)

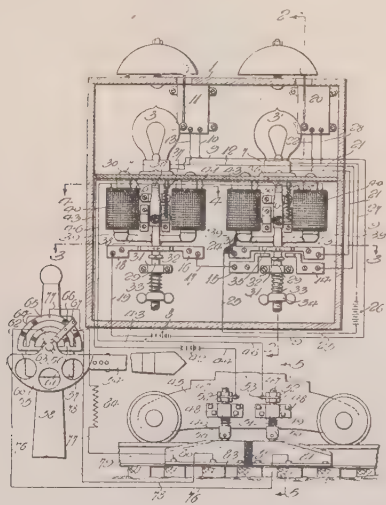
1. In an electric steam pressure cooker, the combination with an insulated heat retaining receptacle, of a

water circulating unit, an electric heater for converting said water into steam, means for permitting the escape



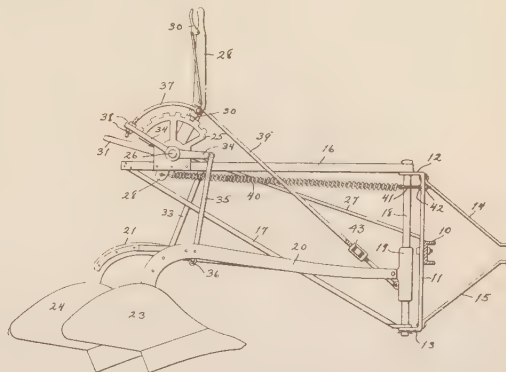
of the steam from the water circulating unit into the receptacle, and a steam tight closure for said receptacle.

1,422,349. SIGNAL-INDICATOR SYSTEM. HARRY C. EIGABROADT, Amsterdam, N. Y. Filed Oct. 3, 1921. Serial No. 505,064. 10 Claims. (Cl. 246—69.)



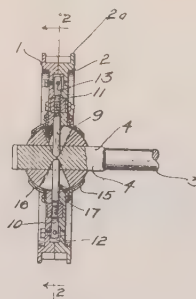
5. A safety device comprising an electrically operated indicator, a second electrically operated indicator, an energizing circuit for the first indicator including a normally open switch element, an energizing circuit for the second indicator including a normally open switch and spaced contacts adjacent the switch of the first circuit and bridged thereby when the switch of the first circuit is open, electrically operated switch closing means including an energizing circuit having spaced contacts for engaging spaced contacts of a completing circuit including a switch operated from a semaphore and conductors leading therefrom to the last mentioned contacts, a resistance positioned in one of the conductors, and spring means yieldably holding the switches of the indicator energizing circuits open, the spring means for the switch bridging the spaced contacts of the second indicator circuit having sufficient strength to prevent movement of the switch out of bridging engagement with the spaced contacts when current is passing through the resistance.

1,422,350. TRACTOR PLOW. LAWRENCE EMERSON, Percy, Iowa. Filed Feb. 7, 1921. Serial No. 443,014. 3 Claims. (Cl. 97—60.)



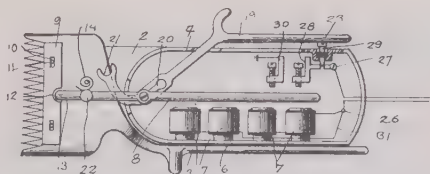
1. A tractor plow, comprising a frame member, a vertical spindle carried thereby, a member slidably mounted on said spindle, a plow beam secured at its forward end to said sliding member, a support extending rearwardly from said frame member above said plow beam, a lever fulcrumed between its ends on said support, a link pivotally connected at one end to said lever and having a sliding pivotal connection at its opposite end to the rear portion of said plow beam, and a link pivotally connecting said lever to the forward end of said plow beam, the last named link being adjustable as to length.

1,422,351. GEAR WHEEL. JOHN L. FLORIN, Davenport, Wash. Filed Apr. 21, 1921. Serial No. 463,249. 2 Claims. (Cl. 74—7.)



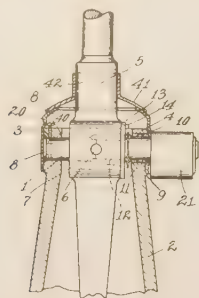
1. The combination with a shaft having a squared end with diametrically arranged grooves therein and a spherical hub on the shaft having complementary slots forming V-shape cavities with the grooves, of a wheel mounted on the hub, and radiating pins carried by said wheel having their inner ends located in said cavities.

1,422,352. HAIR CLIPPER. NICHITU V. GHETIA, Cleveland, Ohio. Filed June 22, 1921. Serial No. 479,602. 8 Claims. (Cl. 30—1.)



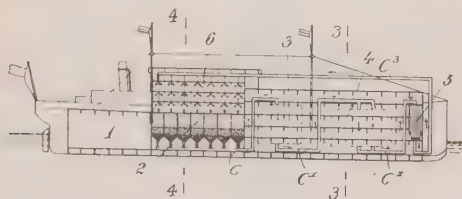
7. A clipper comprising relatively movable cutter plates, normally inoperative power operated means for producing relative movement of the plates, and a manually operated lever shiftable for operative connection with the plates or for rendering said power operated means operative.

- 1,422,353. GEAR-SHIFT LOCK. GEORGE B. M. GRAY, Oakland, Calif. Filed Sept. 25, 1920. Serial No. 412,761. 2 Claims. (Cl. 70—128.)



2. In combination, a standard, a shaft journaled in the upper end of said standard, a gear shift lever secured on said shaft, a lock mounted on the outer end of said shaft, said shaft having a bore and openings communicating with said bore, a cam in said bore actuated by said lock, means actuated by said cam to lock the lever in neutral position, said shaft being provided with openings communicating with said bore, a sleeve fitting on said shaft in said lever and secured to said lever, a flange on the end of said sleeve engaging the outside of said lever, said sleeve being provided with depressions registering with said openings in said shaft, and balls resting in said openings out of said depressions adapted to be forced outwardly by said cam partly into said depressions and partly in said openings when the cam is actuated by the lock to cause said locking means to lock the lever in neutral position.

- 1,422,354. SHIP FOR TRANSPORTING RAW PRODUCTS. HUGO GREFFENIUS, Frankfort on the Main, Germany. Filed June 6, 1919. Serial No. 302,369. 3 Claims. (Cl. 114—73.)



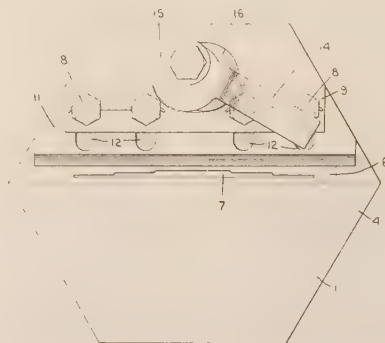
1. A ship adapted for the transportation of grain and the like having thereon facilities for storing the grain, a mill for grinding the grain during the transportation thereof, means for conveying the grain to the mill from the storage place, and means for storing the main and by-products resulting from the milling of the grain.

- 1,422,355. HANDLE. ROGER W. GRISWOLD, Erie, Pa., assignor to The Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Mar. 17, 1922. Serial No. 544,584. 6 Claims. (Cl. 16—120.)



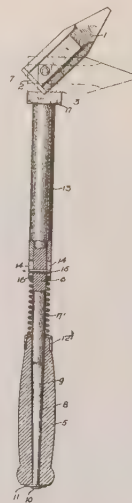
1. In a handle, the combination of a shank; an eye bolt screwed into the shank; a handle of coiled wire arranged around the eye bolt; and a seat for the outer end of the coil having a spiral surface conforming to the last coil of the wire with a shoulder abutting the end of the coil, the outer face of the seat having a socket locking with the eye, the eye bolt being screwed into the shank to place and hold the coil under tension, the seat locking the coil against turning on the bolt.

- 1,422,356. EXTRUDING MACHINE. JACOB E. HELLER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 3, 1920. Serial No. 349,311. 10 Claims. (Cl. 18—12.)



1. In an extruding machine, a die head, a plate having a die opening therein, a locking device over the plate and a lever to move the locking device off the plate.

- 1,422,357. SOLDERING IRON. HARRY F. HAMMOND, South Shaftsbury, Vt., assignor of one-half to John Alfred Davis, Dover, Vt. Filed Jan. 21, 1921. Serial No. 438,963. 2 Claims. (Cl. 113—105.)

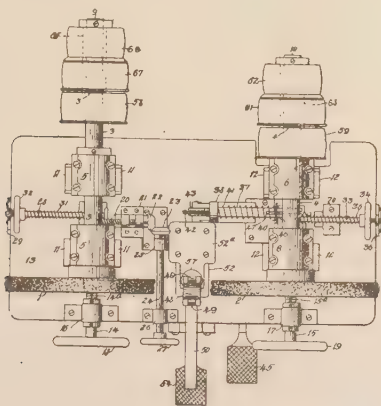


1. A device of the character stated, comprising a soldering iron, a shank pivotally connected to the soldering iron, a spring pressed sleeve on the shank, and a head on the sleeve having a flat outer surface adapted to engage the end of the iron and support the same in alignment with the shank, and said head having notches in its outer face adapted to receive the corners of the iron and support the iron at an angle to the shank.

- 1,422,358. CUTLERY-POLISHING MACHINE. CARL H. HEMMING, New Haven, Conn. Filed Jan. 10, 1920. Serial No. 350,556. 7 Claims. (Cl. 51—80.)

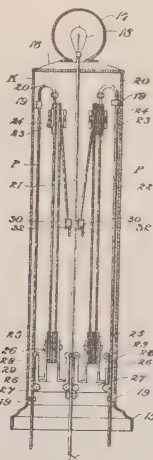
1. A machine of the character described, comprising opposed abrasion wheels, rotatable shafts therefor journaled in standards mounted on rocker-shafts, and wheel tension springs adapted to normally force the wheels toward their central polishing position, means for normally holding one of said wheels in such central position,

a spring of greater tension than the wheel tension springs adapted to force the other of said wheels into open position.



tion, and means adapted to temporarily release the greater tension spring and place said open positioned wheel under its wheel tension spring.

1,422,359. AIR AND WATER SERVICE HOSE LOCKER. CHARLES E. HILL, San Bernardino, Calif. Filed Nov. 26, 1921. Serial No. 517,960. 2 Claims. (Cl. 299—77.)



1. A hose locker comprising a casing, fluid distributing pipes within the casing including rigid sections and flexible sections, pulleys within the casing about which said flexible sections are trained, certain of said pulleys being bodily movable to permit of the untraining and retraining of the flexible sections, weighted tables for supporting the movable pulleys, and rollers carried by the tables and movable over said rigid sections for defining the movement of the tables within the casing.

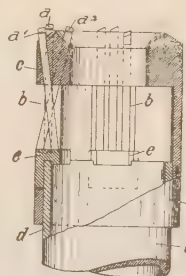
1,422,360. PULLEY ADAPTER. GEORGE W. HUGHES, West Philadelphia, Pa. Filed Aug. 11, 1921. Serial No. 491,494. 2 Claims. (Cl. 64—17.)



1. An adapter of the class described, comprising a split ring having its edges rolled to provide beads which project both inwardly and outwardly from said ring, the inner portions of said beads being adapted to contact

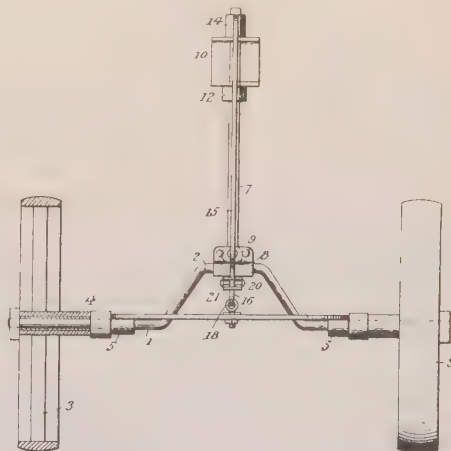
with a transversely curved pulley, while the other portions of said beads constitute belt retaining means, and means for contracting said ring around the pulley.

1,422,361. TUBULAR ROCK DRILL. HANS HUNDRIESER, Halensee, near Berlin, Germany. Filed Jan. 19, 1921. Serial No. 438,507. 3 Claims. (Cl. 255—72.)



1. In a tubular rock core drill, the combination of a drill shaft, a crown sliding thereon, recesses in said crown, supports adapted to be arranged in said recesses and to be carried by said drill shaft, and cutters arranged in the crown and adapted to rest on said supports.

1,422,362. DISK TRUCK. EDWARD E. JOHANNES and RICHARD D. DUNKERTON, Devon, Kans. Filed Nov. 14, 1921. Serial No. 515,065. 1 Claim. (Cl. 280—83.)



A disk truck comprising an axle having a crank portion, a standard having universal connection with said crank portion of the shaft at the lower end of said standard, an arcuate member connected at its end portions with said shaft on opposite sides of the crank portion of the latter, said arcuate member being extended forwardly, an inclined member having a rearwardly turned end mounted on the upper portion of said standard, said standard being adapted to support a draft element carried by an agricultural implement, means adjustable on said standard, said draft element being limited in its downward movement on said standard by the last mentioned means, a forward draft element adjustably mounted on said inclined member, means for pivotally connecting the lower end of said inclined member with said arcuate member and ground wheels carried by said axle.

1,422,363. POCKETKNIFE. JONAS JOHNSON, Ramsay, Mich. Filed Mar. 24, 1920. Serial No. 368,287. 5 Claims. (Cl. 30—10.)

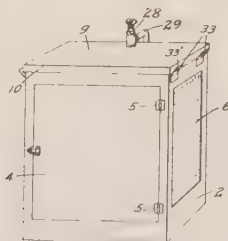
1. A device of the character specified comprising a yoke or substantially U-shaped member and interchangeable

tools, each having at one end a shank whose opposite side edges are beveled, the yoke comprising a bight portion and arms diverging therefrom, and each arm having on its inner face at its free end a groove for engaging the adjacent beveled edge of the shank, the shank of the tool having outwardly extending pins intermediate the ends of the beveled edges, and the grooved ends of the yoke arms having aligned openings for engagement by said pins,



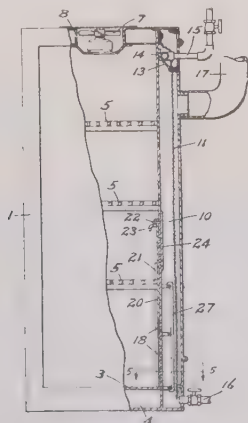
means for clamping the yoke arms on the shank, said means comprising a flattened tubular sheath into which the bight end of the yoke is adapted to pass, the free ends of the yoke arms having oppositely extending lateral lugs to engage the end of the sheath to firmly clamp the grooved ends of the arms on the shank, and releasable means for locking the yoke in the sheath and to permit its withdrawal.

1,422,364. ICELESS REFRIGERATOR. CHARLES L. KIK, Los Angeles, Calif. Filed May 20, 1920. Serial No. 382,773. 3 Claims. (Cl. 45—133.)



3. In an iceless refrigerator, a sheet metal wall having an opening, the metal at the sides of the opening being bent upon itself and thence laterally and thence reversely to form guide ways, a framed screen inserted downwardly into the guide ways to cover the opening, and hooks extending upwardly from the screen and over the edge of the wall so as to support the screen.

1,422,365. ICELESS REFRIGERATOR. CHARLES L. KIK, Los Angeles, Calif. Filed Feb. 21, 1921. Serial No. 446,920. 6 Claims. (Cl. 45—133.)

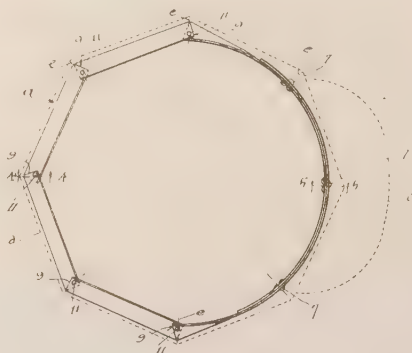


2. A refrigerator including a chamber, means for supporting a porous saturated member in said chamber, said

means comprising a clip having slide portions forming a longitudinal slot, the end of said porous member fastened in said slot, and means for detachably supporting said clip in the upper part of said chamber.

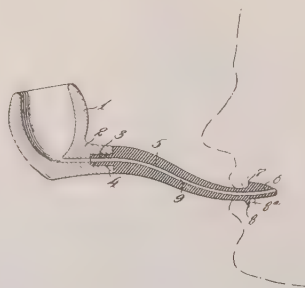
4. A refrigerator including a container, a water supply pipe on the outside of said container, perforations in said pipe, a porous member passed over said perforations and alongside said container.

1,422,366. CAP SHAPER. OSWALD C. LEGER, Los Angeles, Calif. Filed Nov. 21, 1921. Serial No. 516,710. 2 Claims. (Cl. 2—106.)



1. In a cap shaper, a band constructed from a straight strip of resilient material bent into a circle and having its ends secured to each other, one margin of the strip being provided with slits, and the material being lapped at the slits and the lapped portions being fastened together.

1,422,367. PIPE. HERMAN N. MATZEN, Cleveland Heights, Ohio. Filed Apr. 3, 1920. Serial No. 370,976. 2 Claims. (Cl. 131—12.)

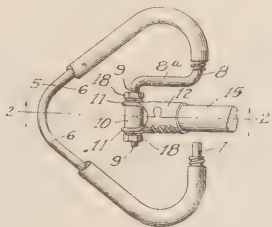


2. A pipe comprising a bowl, a stem and a mouthpiece having a continuous smoke passageway, extending upwardly from the mouthpiece to the bowl, said mouthpiece having an upper shoulder and a lower shoulder arranged close to the upper shoulder whereby the upper teeth of a smoker will hook against the front of the upper shoulder and the lower teeth will naturally bear against the rear of the lower shoulder to cause the pipe bowl to be elevated naturally by the closing of the teeth against said mouthpiece.

1,422,368. MOP FRAME AND HANDLE COUPLING. JACOB A. MEINHARDT, Chicago, Ill. Original application filed June 13, 1921, Serial No. 477,268. Divided and this application filed Dec. 19, 1921. Serial No. 523,352. 2 Claims. (Cl. 15—147.)

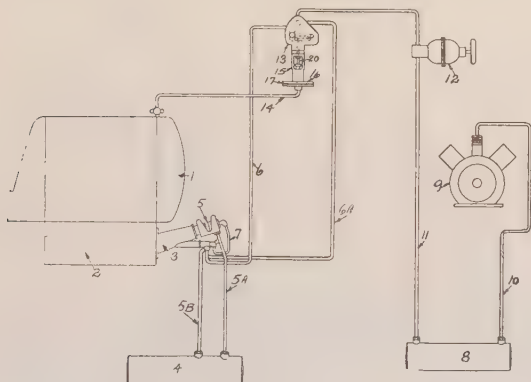
1. In a device of the class described, the combination with a screw-threaded shaft, of a socket member for a handle having at one of its ends a pair of spaced prongs

provided with apertures for said shaft, a sleeve located between said prongs around the shaft, a washer located on the outer side of each of said prongs around the shaft and against rotation thereon, a split spring washer located



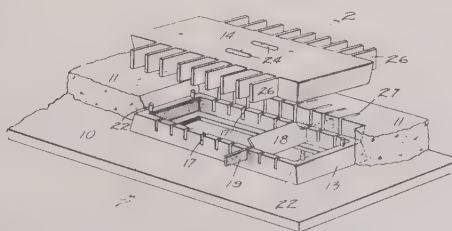
around the shaft against the outer surface of each of the first named washers, and nuts engaging said shaft and located against the outer side of each of said spring washers.

1,422,369. CONTROLLING DEVICE FOR BOILER FURNACES. ROBERT F. METCALFE, Erie, Pa. Filed July 25, 1919. Serial No. 313,419. 7 Claims. (Cl. 158—36.)



1. In a controlling device for boiler furnaces, the combination of a boiler; a burner leading to said boiler; means for supplying air to said burner; and a controlling device for the air comprising a valve chest having a valve face therein with a series of controlling passages through the face; a valve mounted to slidably operate over said face and to successively operate on said openings; a pressure device controlled by boiler pressure; and means actuated by the pressure device to actuate said valve.

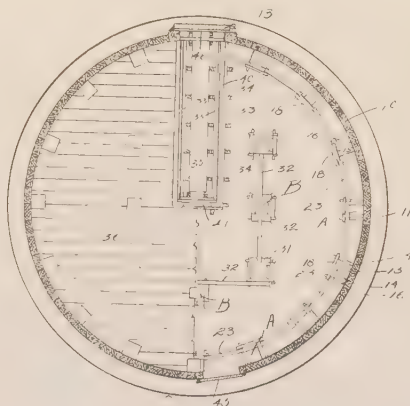
1,422,370. CORE FOR MAKING VENTILATED BLOCKS. EDWIN L. PAGE, Kingsley, Iowa. Filed May 11, 1921. Serial No. 468,473. 2 Claims. (Cl. 25—121.)



2. A two part core for the making of a ventilated building block, including an upper and a lower core member, said lower core member being hollow and having registering notches in its side for receiving the ends of said

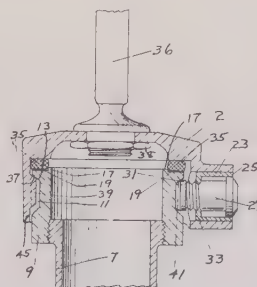
blades and adapted to have a portion of the blades received between the sides of said lower core member and projected upwardly therefrom, the ends of the blades being extended outwardly from the sides of said lower core member, the upper core member being designed to extend over a portion of the blades, the ends of the blades being designed to rest in a vertical plane so that the block material may be tamped without interfering with the blades.

1,422,371. VENTILATED-CORNCRIB-FLOOR MOLD. EDWIN L. PAGE, Kingsley, Iowa. Filed June 7, 1921. Serial No. 475,597. 4 Claims. (Cl. 25—118.)



1. A form for building a single unit concrete floor structure within the outline of a circular wall above the ground, said form comprising a plurality of knock-down pier molds having one of their sides open and arranged with their open side against the circular wall, combined brace and false floor supporting members arranged between and supported on said pier molds for retaining the pier molds in position relative to each other, a false floor structure supported by said combined brace and false floor supporting members, said false floor having openings therein arranged to register with the pier molds permitting the pouring of the concrete as a single unit as specified.

1,422,372. LOCKING CAP FOR AUTOMOBILE RADIATORS. HARVEY S. PARDEE, Chicago, Ill., assignor to Miller & Pardee, Inc., Chicago, Ill., a Corporation of Illinois. Filed Apr. 25, 1921. Serial No. 464,324. 6 Claims. (Cl. 70—90.)



1. In apparatus of the class described, in combination, a cap, a lock in the cap, comprising a bolt, an annular member on which the cap fits, means rotatably mounted upon the annular member, a compressible gasket positioned between said means and said cap, whereby the rotation of the cap upon the annular member rotates simply the gasket and said means, the movement of the bolt into

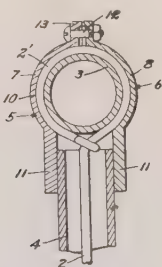
locking position serving to secure the cap against removal from the annular member and also compressing the gasket to form a tight joint between the cap and the annular member.

1,422,373. SILENCER. WALTER T. PEARCY, New Albany, Ind. Filed Nov. 21, 1921. Serial No. 516,655. 3 Claims. (Cl. 123—90.)



1. In a device of the kind described, a body portion arranged to engage the tappet lock of an automobile and provided with a pair of legs extending downward behind said tappet lock and having resilient arcuately bowed portions intermediate their extremities adapted to bear against the tappet guide shoulders of a crank case.

1,422,374. CONDUIT COUPLING. JOSEPH F. RAMBO, Pomona, Calif., assignor of one-half to Robert Andrew Schmitt, San Diego, Calif. Filed Apr. 29, 1920. Serial No. 377,518. 3 Claims. (Cl. 247—1.)

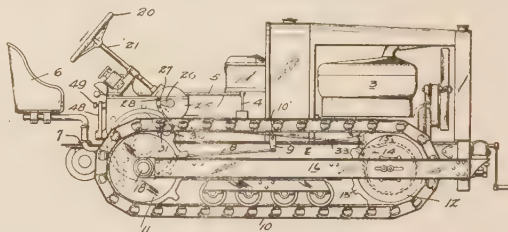


1. The combination with an electrical conduit pipe inclosing a ground wire, of means for connecting said conduit in contiguous and fixed relation to a grounding pipe; said means comprising a sectional coupling attachable to the said conduit and the said pipe and having fastening devices for securing the parts assembled; the sections having interior seats to receive the ground conductor.

1,422,375. TRACTOR. HENRY CLAY REID, San Francisco, Calif., assignor to Pacific Fire Extinguisher Company, San Francisco, Calif., a Corporation of California. Filed June 1, 1920. Serial No. 385,513. 1 Claim. (Cl. 180—17.)

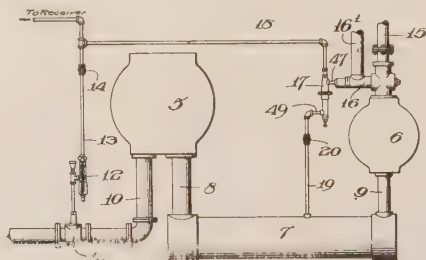
A tractor having side, traction belts and idler sprockets therefor; means for driving the belts, brakes for the belts and operative on said sprockets, and a device for steering the tractor comprising means for holding the

driving means concurrently applied to each belt and releasing the brakes at that time, or for setting the



brake and releasing the drive of one belt and conversely acting on the other, said means having reversely acting connections to the drive means.

1,422,376. MULTISTAGE UNLOADER. GEORGE M. RICHARDS, Philadelphia, Pa. Filed July 3, 1918. Serial No. 243,140. 16 Claims. (Cl. 230—24.)



1. In a multi-stage unloader system, high and low pressure cylinders and an intercooler between them, in combination with a separate unloader and associated trigger valve for each cylinder, one unloader being a pressure unloader in the discharge pipe and which is initially unloaded, and common pressure supply for each trigger valve.

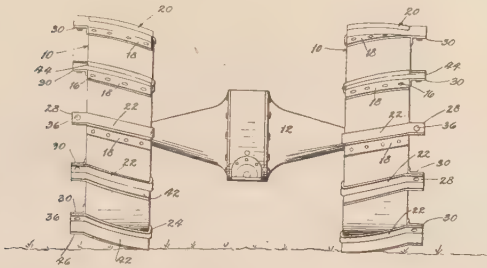
7. In a multi-stage system unloader, high and low pressure cylinders and an intercooler between them, in combination with an unloader and trigger valve for the low pressure cylinder, an unloader for the high pressure cylinder, a receiver connected with the high pressure cylinder, a trigger valve for the high pressure cylinder unloader, connections from the receiver to the trigger valve to operate the unloader with operation of the trigger valve, a diaphragm in the trigger valve, a valve controlled by the diaphragm to close discharge from the unloader and admit receiver pressure therein when the diaphragm moves, the one surface of the diaphragm being open to atmospheric pressure, a spring pressing against the diaphragm and fluid connections between the diaphragm and the intercooler to cause the atmospheric pressure to move the diaphragm when the intercooler falls to a predetermined point.

15. In an unloader trigger valve, a trigger valve body having openings for connection with the receiver pressure and with the unloader, a double valve controlling the passage of receiver pressure to the unloader and open to the atmosphere at an intermediate point, a pressure-operated member adapted normally to hold the valve closed and a hand operated device engaging and moving the member.

1,422,377. TRACTOR CLEAT. CURTISS ROBBETT, Columbia, Mo. Filed Nov. 19, 1920. Serial No. 425,148. 5 Claims. (Cl. 301—44.)

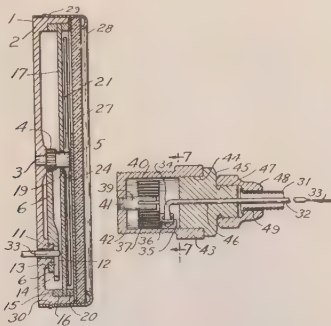
4. An auxiliary cleat for tractors comprising a base plate, a traction plate formed along one longitudinal edge of said base plate, an anchoring flange formed along one

longitudinal edge of said traction plate and adapted to overhang and contact with the main cleat of a traction wheel, and hooks carried by the ends of said base plate, one of said hooks being detachable.



5. An auxiliary cleat for tractors comprising a base plate, a traction plate carried by said base plate, one end portion of said base plate and said traction plate being extended angularly and adapted to extend over the side of a tractor wheel, a hook detachably connected to the extended portion of said base plate, and a second hook connected to the other end portion of said base plate.

1,422,378. RADIOMETER. MICHAEL W. RYAN and MICHAEL UTTENDORFER, Seattle, Wash. Filed Nov. 9, 1921. Serial No. 513,991. 4 Claims. (Cl. 73-52.)

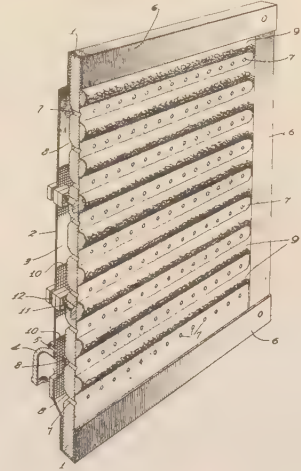


1. A device of the class described embodying a plug, a small plug inside of it, a coil spring similar to a watch spring made of thermostatic metal mounted in a slot in the small plug, a projection on the outer end of the spring, having a slot in it, a lever on the end of a wire projecting through the slot, a nut in the plug forming a bearing for the wire, a cap on the nut, a flexible tube held in the end of the cap, a cylindrical shaped casing, having a hole in its lower side, a flat bar projecting through the hole, a wire connecting this flat bar to the lever which projects through the slot in the projection on the spring, a gear segment mounted over the hole in the casing, having a slot in its end through which the flat bar also projects, a small pinion mounted on a pin in the casing meshing with the gear segment, a hub on the side of the small gear, a disc on top of these gears through which the hub projects, a spacing ring on which the disc rests, a pointer on the end of the hub outside of the disc, another spacing ring outside of the disc, another disc outside of the pointer, a glass disc on top of this one and a cap on the outside which may be sprung over a ridge on the casing.

1,422,379. HEATING ELEMENT. MAX SCHEY, Brooklyn, N. Y. Filed Aug. 29, 1921. Serial No. 496,263. 7 Claims. (Cl. 126-41.)

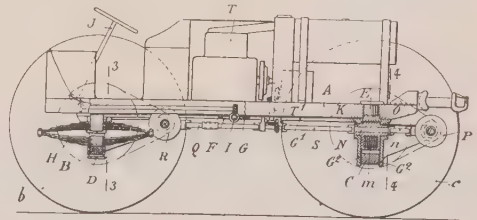
1. A heating element for broilers embodying a rigid, nonflammable and nonmetallic plate provided with flat faces and having parallel rows of perforations all of

which perforations are of substantially the same size and through which gas is adapted to pass, and parallel ribs of hardened plastic mineral earth molded directly on to one face of the plate and positioned between successive



rows of perforations, whereby gas issuing from the perforations is adapted to burn between the ribs and heat said ribs to a high temperature, so that the heat taken up by the ribs may be radiated.

1,422,380. TRACTOR HAVING FOUR STEERING DRIVING WHEELS. EUGENE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 29, 1920. Serial No. 420,526. 3 Claims. (Cl. 180-50.)

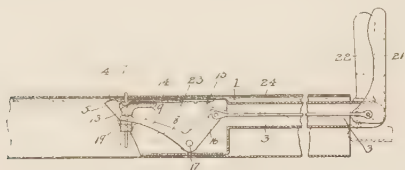


1. A tractor comprising a chassis provided with a fixed depending vertical pivot at one end and a vertical bearing at the opposite end, axles connected with the respective ends of said chassis for movement about the axes of said vertical depending pin and the vertical bearing, said axles being provided with driving wheels, steering means for said driving wheels comprising a steering member mounted on the chassis and steering sectors connected with the steering member and said axles, one of said sectors having a pivot pin journaled in said vertical bearing, and a horizontal pivot pin connecting one of said axles with said sector below the vertical pin thereof to provide for independent swinging movement of the axle transversely of said chassis.

1,422,381. DEVICE FOR INSERTING RIVETS. JOHANN SCHUETTE, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y., a Corporation of Maryland. Original application filed Apr. 25, 1919, Serial No. 292,767. Divided and this application filed Feb. 20, 1922. Serial No. 537,665. 8 Claims. (Cl. 78-51.)

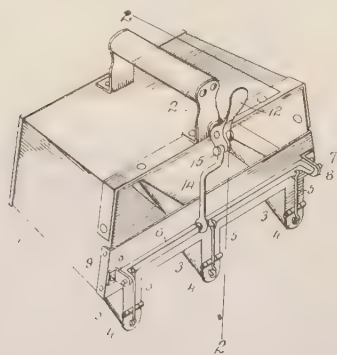
1. In a portable tool for inserting rivets, adapted to be manually inserted within the article being riveted, rivet

positioning means, rivet supporting and inserting means, means for holding the rivet on said supporting and inserting means, means for adjusting said holding means to



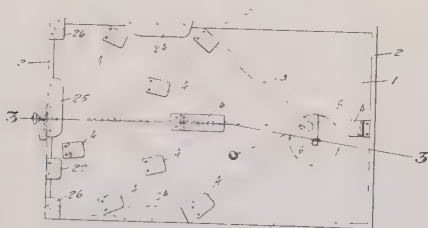
register the rivet with the hole in which is to be inserted and means for moving the rivet supporting and inserting means to insert the rivet in said hole.

1,422,382. BATTER PITCHER. ADOLF J. SCHULTZ, Kansas City, Mo. Filed Apr. 25, 1921. Serial No. 464,174. 5 Claims. (Cl. 107—52.)



1. In a batter pitcher comprising a receptacle having a handle, a plurality of delivery spouts located at the upper end of said receptacle, and closures for said spouts, and means for simultaneously opening and closing said closures, substantially as set forth.

1,422,383. GAME DEVICE. HENRY J. SCHUMACHER and FRANK RICE, Meadville, Pa., assignors of one-third to S. D. Peterson, New Castle, Pa. Filed Jan. 28, 1921. Serial No. 440,579. 9 Claims. (Cl. 46—61.)

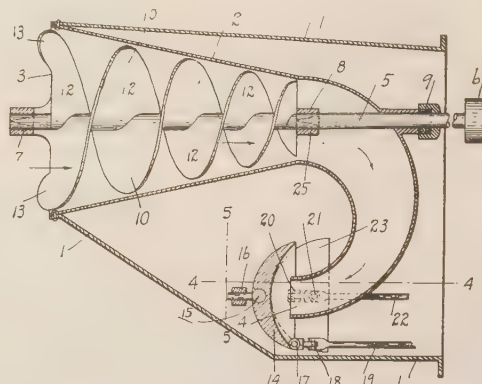


1. In a game device, the combination of a mechanically actuated batting means; means for delivering a ball to the batting means; and a chance device cooperating with one of said means varying the operative relation of the batting means and the delivery means to vary the action of the bat on the ball.

1,422,384. POWER PROPULSION DEVICE. MAHLON CLAUDE SOUTH, Cincinnati, Ohio, assignor of one-third to Cassius M. Garrison, Cincinnati, Ohio. Filed Sept. 6, 1921. Serial No. 498,781. 2 Claims. (Cl. 244—18.)

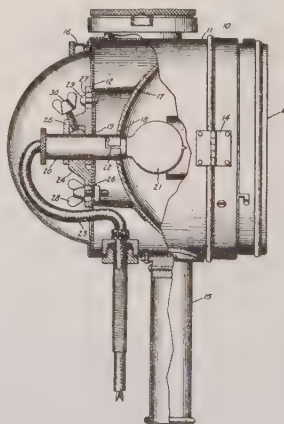
2. In a device of the character described, an element for the intake and outlet of air, means for drawing in said

air, said element being wide at its mouth and contracted at its outlet so that the air therein will be compressed, a cup-shaped disc supported near the air outlet and mounted on a universal joint, the air at the outlet forced to impinge against said disc with great velocity and density, the guiding or steering rods of an aeroplane, each con-



nected at one of their ends by a movable joint to said disc, enabling the operator to tilt said disc so that the same will assume various positions to enable a greater or less amount of air to pass out at a given point or points between said disc and the outlet of said air intake element, to guide the machine in its course.

1,422,385. FOCUSING MECHANISM FOR PROJECTORS. SVEN STALBERG, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 20, 1920. Serial No. 425,490. 2 Claims. (Cl. 240—44.)

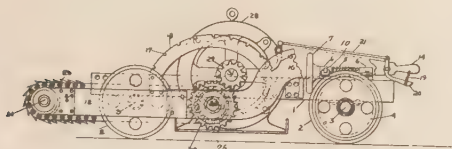


1. An adjusting mechanism for lamps and the like comprising a supporting wall having an opening, a lamp socket member loosely extending through said opening, clamping members having longitudinal slots slidably and pivotally connected to said wall and arranged to support said socket member and permit its axial and lateral adjustment in any direction parallel to itself, and means for securing said socket member in any adjusted position.

1,422,386. APPARATUS FOR SAWING NATURAL DEPOSITS. EDWARD B. STARR and HOWARD E. MARSH, Lompoc, Calif. Filed Feb. 26, 1920. Serial No. 361,377. 3 Claims. (Cl. 262—28.)

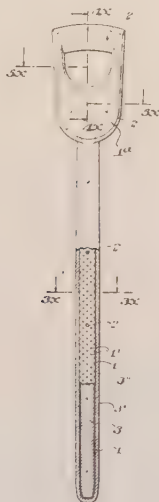
3. In an apparatus for sawing natural deposits a supporting means, a cutter bar pivotally mounted on said supporting means and having a rearward extension on the

opposite side of its pivotal mounting and serving as a lever for operating said cutter bar and provided with a handle



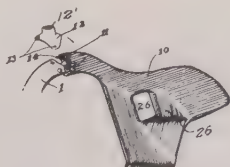
and with means for locking the cutter bar in adjusted position, a cutter chain carried by and movably mounted on said cutter bar, and means for driving said cutter chain.

1,422,387. TOOL HANDLE. WILLIAM HATTON STEVENS, Hollidaysburg, Pa. Filed Dec. 23, 1920. Serial No. 432,859. 7 Claims. (Cl. 145—61.)



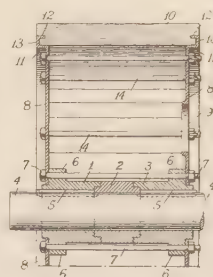
1. A shovel handle comprising a tubular metal core, in combination with a molded body filling and encasing said core.

1,422,388. AUTOMOBILE FENDER. SARKIS H. SUMBULIAN, Fresno, Calif. Filed Aug. 30, 1921. Serial No. 497,043. 3 Claims. (Cl. 280—153.)



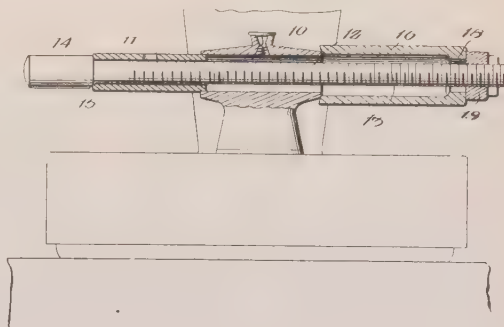
1. An automobile fender structure comprising an arched member adapted to fit over the automobile radiator, upwardly and outwardly inclined braces carried by the arched member, tie members between the braces and arched member and downwardly and rearwardly curved angle members cooperating with the braces and arched member to support the fender wings.

1,422,389. PULLEY. SETH R. SWAIN, East Orange, N. J. Filed Jan. 31, 1921. Serial No. 441,179. 6 Claims. (Cl. 64—17.)



1. A pulley comprising in combination, a hub consisting of a plurality of tubular sections, means for holding said sections in end-to-end contact with each other, a plurality of peripherally spaced webs each connected to a corresponding one of said sections, a plurality of face-forming staves extending between said webs, and means for drawing said webs toward each other to cause them to clamp said staves.

1,422,390. BUSHING INSERTER OR REMOVER. OTTO F. TIMM, Wilsoncreek, Wash. Filed Apr. 8, 1921. Serial No. 459,674. 1 Claim. (Cl. 29—88.2.)

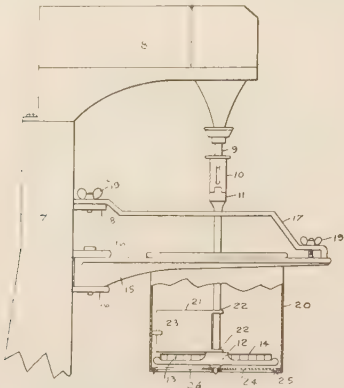


In a device for inserting and removing bushings from machine elements, bearings or the like, a shaft having a portion of its periphery threaded and adapted to be extended through the bushing operated upon, a head integral with the shaft at one end thereof and comprising an annular shoulder engageable with one end of the bushing, a sleeve arranged on the shaft and having one end beveled to adapt it for engagement with the machine element and having an inwardly extending annular flange at its opposite end adapted with the end of the sleeve to constitute a seat, and a nut engaging the threads of the shaft and abutting the seat of the sleeve, said shaft having its ends opposite from the head squared and having a transverse opening adjacent said squared portion whereby it may be held from turning.

1,422,391. FOOD MACHINE. JOSEPHINE TRUST and HENRY TRUST, Park Ridge, N. J., assignor, by mesne assignments, to Meteor Mixing Machine Co., Inc., a Corporation of New York. Filed Sept. 18, 1919. Serial No. 324,603. 1 Claim. (Cl. 146—11.)

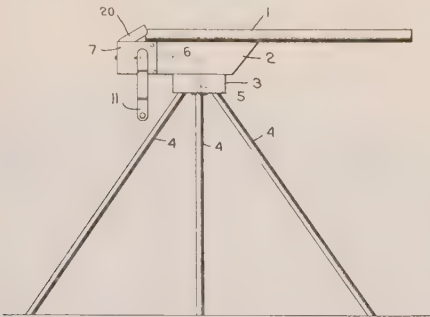
In a machine of the class described, a receptacle provided with an opening in the bottom, a cutting tool

adapted to rotate therein and a partition adjacent thereto for preventing the rotation of food therewith,



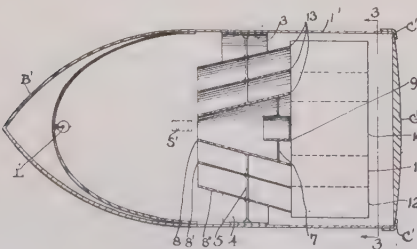
said tool provided with upper knife-like members extending radially and lower knifelike members extending axially.

1,422,392. TOY MACHINE GUN. JOHN B. VAN DOREN, Rockland, Mass., assignor to The National Fireworks Manufacturing Company, West Hanover, Mass., a Corporation of Arizona. Filed Dec. 6, 1919. Serial No. 342,970. 4 Claims. (Cl. 42—57.)



1. A pyrotechnical toy for exploding successively a series of fulminate caps or patches of fulminate carried by a strip, comprising a plurality of juxtaposed rotatable rollers adapted to receive the fulminate bearing strip between them, means for rotating one of said rollers and resilient means for forcing said rollers towards each other with sufficient pressure to explode said caps successively as they pass between said rollers.

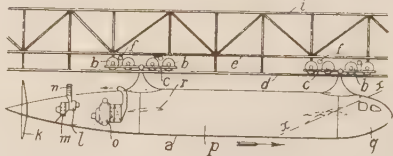
1,422,393. DIMMER. JOHN M. WADDELL, Alexandria, La. Filed July 16, 1920. Serial No. 396,828. 2 Claims. (Cl. 240—48.4.)



1. In a headlight for vehicles, the combination with a reflector and light source, of a light deflecting member

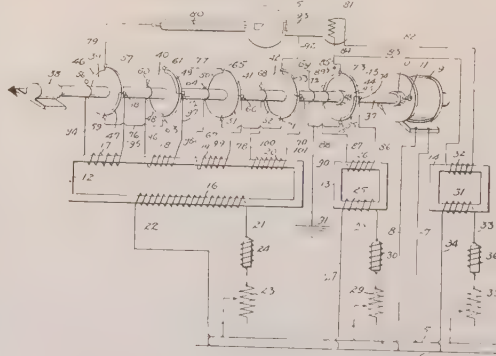
placed in front of the reflector and comprising concentrically arranged frusto-conical elements with their edges lying substantially in the same vertical planes, the inner edge of each element being in overlapping relation with the outer edge of the enclosed element, and a grid comprising forwardly directed parallel plates carried at the front end of the deflecting member, said member having means for allowing it to be moved forwardly and rearwardly with relation to the light source and for rotary adjustment about the common axis of the frusto-conical elements.

1,422,394. SUSPENDED HIGH-SPEED RAILWAY. RUDOLF WAGNER, Hamburg, Germany. Filed Nov. 7, 1919. Serial No. 336,407. 8 Claims. (Cl. 104—23.)



1. A suspended high speed railway, comprising a car of aerodynamically favorable shape, means for propelling the car comprising a motor and a propeller connected thereto, parallel rails, two or more trucks, each truck comprising a rigid frame supported upon two or more pairs of opposed wheels, and a single rigid connecting member between each truck and the car body, the said member being located substantially midway between the rails and being so mounted as to permit movement of the car body in directions transversely of the said track.

1,422,395. MULTIDISK ELECTRIC MACHINE. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to Wappler Electric Co., Inc., a Corporation of New York. Original application filed Aug. 11, 1919, Serial No. 316,584. Divided and this application filed Dec. 12, 1919. Serial No. 344,372. 11 Claims. (Cl. 175—364.)

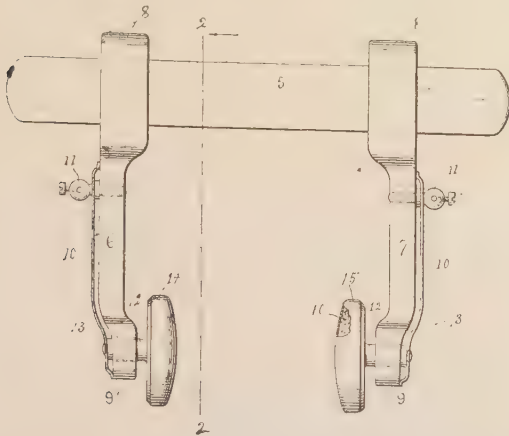


1. In an electric machine the combination of a plurality of a number of secondary windings, a plurality of rectifying disks associated with said secondary windings and mounted to rotate freely in air, conductors connecting said secondary windings with said rectifying disks in order to enable the rectifying disks to rectify the currents generated in said secondary windings, and means controllable at the will of the operator for adjusting one of said rectifying disks relatively to another, in order to cause one of said currents to lag behind another.

1,422,396. CLAMP MOUNTING FOR ELECTRODES. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed Feb. 14, 1921. Serial No. 444,810. 9 Claims. (Cl. 174—89.)

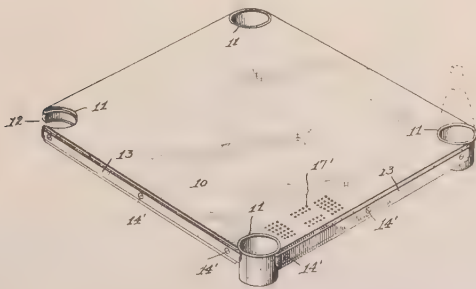
1. The combination, with a clamp consisting of a straight slat and a pair of arms slidably mounted thereon

and substantially parallel with each other, of a pair of electrodes and a pair of springs connected with said



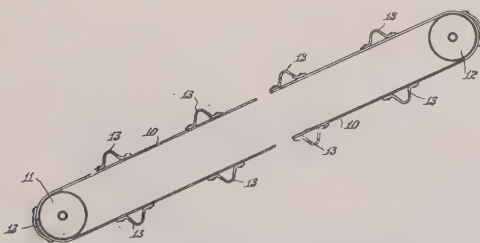
electrodes and with said arms, for the double purpose of supporting said electrodes resiliently upon said arms and of supplying electric currents to said electrodes.

1,422,397. SMOKER'S TABLE. JAMES WATSON, Athens, Pa. Filed Jan. 17, 1922. Serial No. 529,960. 4 Claims. (Cl. 45-122.)



1. A game-table having openings formed at its corners and provided with an open side, a reinforcing-strip secured to the edge of the table and extending around one side of each of said openings to form a support for a cup-like receptacle, the top edge of said reinforcing-strip being positioned below the top-surface of the table to permit the bead around the top-edge of the receptacle to lie flush with the top-surface of the table.

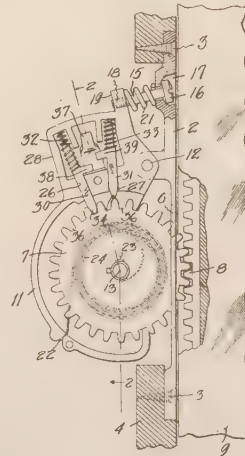
1,422,398. CONVEYING BELT. JERE L. WENTZ, Passaic, N. J. Filed May 21, 1919. Serial No. 298,625. 1 Claim. (Cl. 198-199.)



A flexible conveyer belt comprising a single layer of flexible material, a plurality of independent flexible flights supported at intervals directly upon said belt, each flight comprising a section of integral flexible material having its middle portion normally arched away from

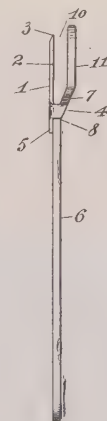
the belt and its opposite ends secured to said belt parallel to the latter, said flights elongating, when said belt passes over a pulley, to lie substantially parallel to said belt.

1,422,399. SASH LOCKING AND BALANCING MECHANISM. ARTHUR C. WHELOCK, Oakland, Calif., assignor to American Automatic Lock and Lift Company, San Francisco, Calif., a Corporation of California. Filed Nov. 29, 1920. Serial No. 426,899. 5 Claims. (Cl. 16-201.)



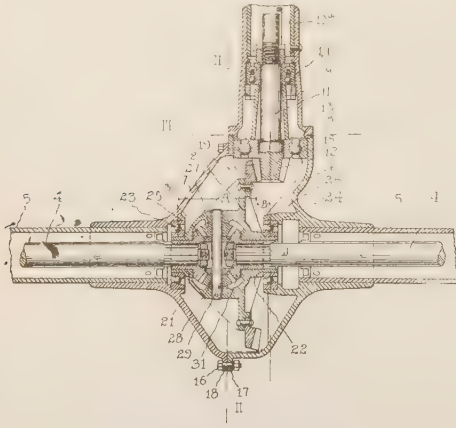
2. In a device of the character described in combination with spring actuated balancing means, a ratchet, a plurality of tumblers adapted to engage said ratchet simultaneously and arranged when so disposed whereby one tumbler will lie in staggered relation with respect to the ratchet spaces when another tumbler is seated therein, each of said tumblers when engaged in one of said spaces being capable of preventing the movement of the ratchet with respect to the tumblers in opposite directions, and means for holding all of said tumblers disengaged from said ratchet.

1,422,400. CAN OPENER. FREDERICK L. WHITCOMB, Clyde, Ohio. Filed Aug. 19, 1921. Serial No. 493,636. 3 Claims. (Cl. 30-3.)



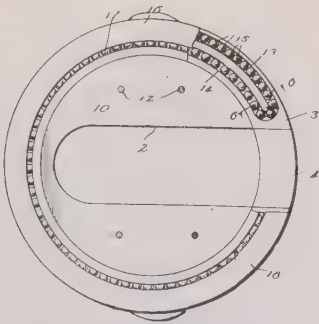
1. A can-opener comprising a cutting blade member provided with fulcrum ears disposed at right angles thereto, and having a prolonged tang, said blade member being formed from a sheet metal blank; and a metal handle off-set to form a terminal guide, the blade tang being integrally attached to the inside face of the handle member below the off-set, and the ears overlapping opposite edges of said handle.

- 1,422,401. DIFFERENTIAL DRIVING MECHANISM FOR MOTOR VEHICLES. JOHN W. WHITE, Detroit, Mich. Filed June 10, 1919. Serial No. 303,084. 3 Claims. (Cl. 74—99.)



2. In differential driving mechanism, in combination, two driving axles arranged in line with one another, a hollow gear casing comprising two casing members secured together, and one of which members is provided with an opening formed entirely in said member, two bearings located one within each of said casing members; a rotatable differential pinion carrier located within said casing and the ends of which are supported in said bearings; differential gearing through which said axles are driven from said carrier; a third casing member secured in place over, and so as to register with said opening; a driving shaft located within said third casing member and arranged at right angles to said driving axles and the axis of which is in line with one of the bearings aforesaid; a driving pinion carried by said driving shaft; and a driven ring gear carried by said carrier and with which said driving pinion is in mesh.

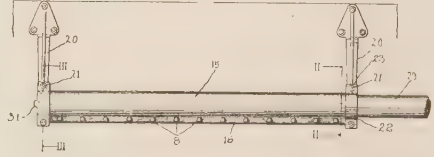
- 1,422,402. WRENCH. OKEY M. WHITE and WILLIAM CHESTER McCULLOUGH, Muskogee, Okla., assignors of one-third to Alexander Mathews, Muskogee, Okla. Filed Dec. 11, 1920. Serial No. 429,912. 3 Claims. (Cl. 81—119.)



1. A wrench of the character specified, comprising a bit engaging element, and a ring in which the said element is journaled, the ring having a hinged portion adapted to swing upwardly to permit the insertion of the bit into the bit engaging element through the ring, and means for locking said hinged portion in closed position, and a ball bearing arranged between the bit engaging element and the ring, said bearing comprising arc-shaped grooves in the ring, one of said grooves being of a depth to entirely receive the balls of the bearing, and the other being of a depth to extend the balls into engagement with the bit engaging element, said grooves being connected at their

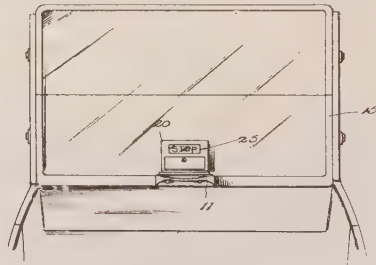
ends by inclined passages, said grooves extending from one end of the gate opening to the other the inclined passages being at the opposite sides of the gate opening.

- 1,422,403. MUFFLER. FRANK A. WHITTEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1919. Serial No. 304,755. 9 Claims. (Cl. 137—160.)



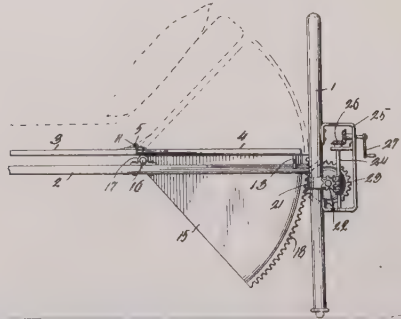
1. A muffler consisting of a tubular member of substantially uniform area throughout its length and having two flanges extending outwardly from its periphery and longitudinally thereof and throughout the length of the muffler, and which flanges are spaced apart from one another to thereby provide an outlet passage between them.

- 1,422,404. THEFT SIGNAL FOR MOTOR VEHICLES. LUDWIG R. ZEPKA, Cleveland, Ohio. Filed Sept. 10, 1921. Serial No. 499,592. 6 Claims. (Cl. 40—15.)



6. A theft signal for motor vehicles including a casing having a partition therein and open at opposite sides above the partition, a plate closing the casing below the partition, a signal plate shiftable through the partition to a position between said sight openings, a lock carried by said closure plate and having a bolt, and a bell crank pivoted within the casing forming an operative connection between the bolt and said signal plate whereby the lock may be operated for shifting the signal plate.

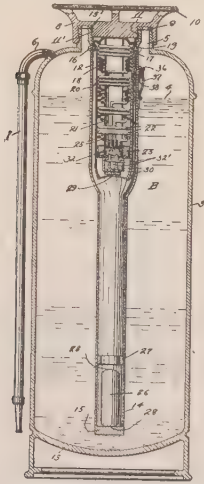
- 1,422,405. ELEVATING RACK FOR BEDS. CLIFFORD G. ALGUIRE, Madison, S. Dak. Filed Sept. 10, 1921. Serial No. 499,861. 2 Claims. (Cl. 5—43.)



1. An adjustable head for beds comprising an adjustable frame adapted to be mounted on a bedstead adjacent the head thereof, lifting elements between the side rails of the said bed and adjusted vertically thereof, said ele-

ments normally engaging and supporting the adjustable frame in a horizontal position, bracket members carried by the head posts, a shaft mounted in said bracket members and extending transversely of the bed, pinions carried by said shaft for engaging with the lifting elements, a third pinion carried on one end of the said shaft adjacent one of the head posts, a frame connected to the post and adjacent the said third pinion, and means mounted in the frame for driving the said third pinion.

1,422,406. FIRE EXTINGUISHER. FREDERICK C. BARGAR, Columbus, Ohio, assignor to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 11, 1919. Serial No. 316,749. 50 Claims. (Cl. 169—32.)



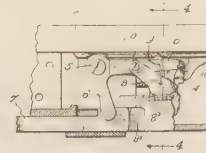
1. A gas pressure generating attachment for a fire extinguisher comprising a shell adapted to be connected with the extinguisher and provided interiorly with a material which has potential energy and is transformable gradually into a gaseous product capable of exerting kinetic energy adequate to expel the extinguishing agent from the extinguisher.

36. A chemical fire extinguisher comprising a container for the chemical fire extinguishing agent, said container having an outlet, and mechanism for supplying a pressure of gas upon the agent in said container to expel said agent through the outlet, said mechanism comprising a means containing a material having potential energy and transformable in and of itself into a gaseous product capable of exerting kinetic energy and which means has its interior normally out of communication with the interior of the container and has communication therewith when the gaseous product has been formed, and means for setting the aforesaid means into gas producing activity at the time the gaseous product is to be used to expel the extinguishing agent from the container.

1,422,407. THREAD CUTTER. RUDOLPH BECKER, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 6, 1918. Serial No. 252,938. 10 Claims. (Cl. 112—252.)

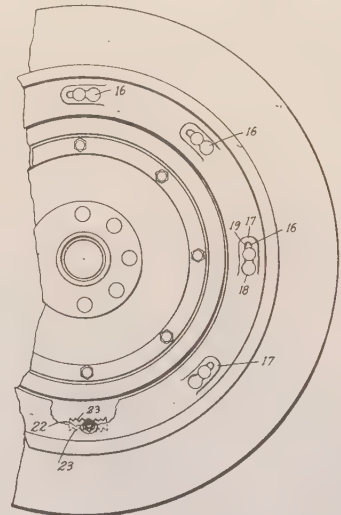
2. In a sewing machine, a thread-cutter comprising a cutting blade having a fixed fulcrum, a second cutting blade coacting therewith having a floating fulcrum and a cam-surface, a pivotal connection between said blades

intermediate their fulcrums, means for moving said first blade on its fulcrum, and means coacting with the cam-



surface to move the second blade about the pivotal connection between the blades.

1,422,408. RIM CONSTRUCTION FOR PRESSED STEEL WHEELS. DAVID H. BELLAMORE, New York, N. Y., and THOMAS I. S. BOAK, East Orange, N. J.; said Boak assignor to said Bellamore. Filed Aug. 22, 1919. Serial No. 319,129. 1 Claim. (Cl. 301—23.)

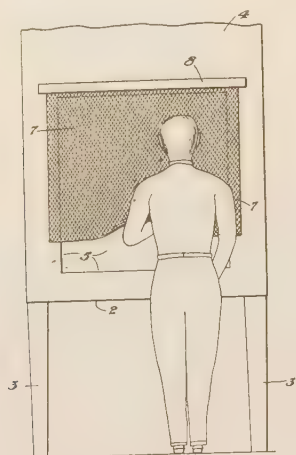


As a new article of manufacture a wheel embodying a disc, the outer margin of which is bent laterally to form a fixed rim section, said disc being provided, adjacent the fixed rim section, with an annularly disposed slot, the inner and outer edges of which are serrated, a plurality of studs rigid with the disc and extending from one face thereof in an annular path, in combination with a ring member, the outer margin of which is bent laterally to form a removable rim section and which is provided with a plurality of inclined keyhole slots equal in number to the studs and similarly placed, whereby the ring member may be brought into position to cause all of the keyhole slots to receive the studs and thereafter rotate to tightly clamp the parts together, and a bolt provided with a polygonal portion adapted to extend through the slot in the disc and interfit with the serrated edges of said slot when said bolt is passed through said slot and through the aperture in the ring, for the purpose of locking the ring against retrograde rotation.

1,422,409. SAFETY SCREEN. JAMES L. BERNARD, Beaver, Pa. Filed May 31, 1921. Serial No. 473,991. 4 Claims. (Cl. 45—105.)

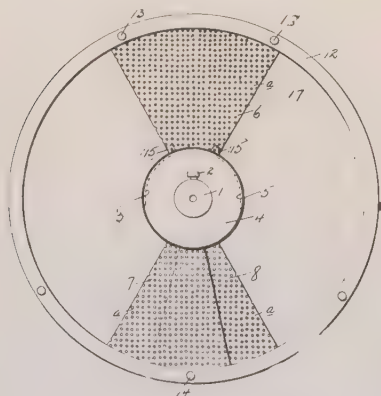
1. The combination with a laboratory table having a vertical front wall extending upwardly from the top thereof, and provided with a suitable opening through which an operator may manipulate any desired appara-

tus supported on said table, of a safety screen adapted to close said opening to prevent objects that may be exploded on said table striking the operator, said screen



comprising a flexible metallic intermeshed member having its one side secured along the top of said opening, and having its other three sides free.

1,422,410. SHUTTER FOR MOTION-PICTURE-PROJECTING MACHINES. JOHN B. BLANTON, Chattanooga, Tenn., assignor of one-half to Harry A. Wingers, St. Louis, Mo. Filed Apr. 21, 1920. Serial No. 375,591. 16 Claims. (Cl. 88—19.3.)

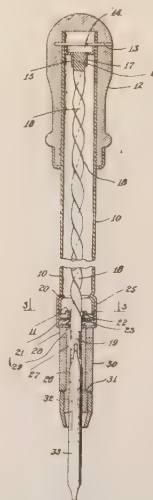


1. A motion-picture projecting-machine shutter comprising in combination, a hub, a blade fixed relatively to the hub, a plurality of blades shiftable circumferentially relatively to the hub and the fixed blade for varying the number of light-obstructions presented by the shutter per revolution, and means for limiting the circumferential movement of the shiftable blades relatively to the fixed blade, the shiftable blades being circumferentially spaced from the fixed blade throughout their limit of movement.

1,422,411. SCREW DRIVER. FRANK V. BORICK, New York, N. Y. Filed June 4, 1920. Serial No. 386,454. 1 Claim. (Cl. 145—53.)

In a spiral tool driver, the combination of a tubular member terminating at its lower end in a series of

projections provided with parallel straight side edges disposed axially thereof, a handle attached to the opposite end of said member, a spiral spindle composed of square material extensible in said tubular member, a ferrule enclosing the end of the tubular member having the said projections, the said ferrule being provided with an opening to receive the spindle therethrough and having its closed end spaced substantially away from the adjacent end of the tubular member, a complemental spring actuated member movable axially and rotatably within said ferrule and having upstanding projections similar to the first named projections and adapted to be received by



the latter, whereby rotation of the tubular member in either direction will cause a corresponding rotary movement of the complemental member, the latter member being provided with an upstanding central sleeve having a through square bore to embrace the walls of said spindle, whereby axial movement of the spindle and tubular member relatively to each other will cause the projections of the complemental member to remain in engagement with the projections of the tubular member when the tool is collapsed to drive a screw and to move the complemental member axially and then rotatably to disengage the said projections when the tool is extended.

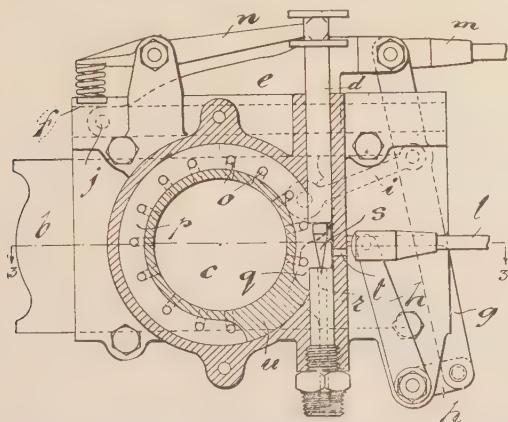
1,422,412. MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mulhausen, France. Filed Aug. 31, 1920. Serial No. 407,252. 2 Claims. (Cl. 18—54.)

1. The step in the process of producing very fine viscose silk threads of 6 deniers or less, which consists in forcing the viscose through the usual aperture of 0.10 mm. diameter into a precipitant bath containing a concentrated solution of easily soluble bisulphites, the concentration of the bath being directly proportional to the fineness of the thread to be produced, so that the concentration is increased in accordance with the fineness of the thread desired.

1,422,413. CARBURETOR FOR INTERNAL-COMBUSTION ENGINES. CLEMENT BROWN, Birchfield, Birmingham, England. Filed Oct. 15, 1918. Serial No. 258,227. 1 Claim. (Cl. 261—51.)

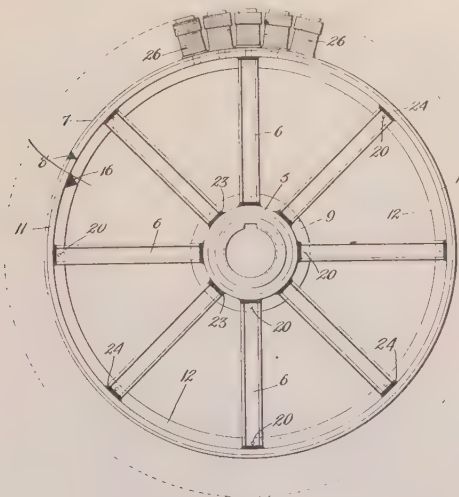
In a carburetor, a main air passage, a throttle valve controlling said passage, a fuel orifice, a cam moving parallel to said throttle valve, a guide to which said cam is pivoted, a member actuated by said cam for con-

trolling said orifice, means for simultaneously moving said cam and said throttle valve, and means acting on



said first named means for moving said cam on its pivot independently of said throttle valve.

1,422,414. ROTOR SPIDER. JAMES BURKE, Erie, Pa., assignor to Burke Electric Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,214. 3 Claims. (Cl. 171—252.)

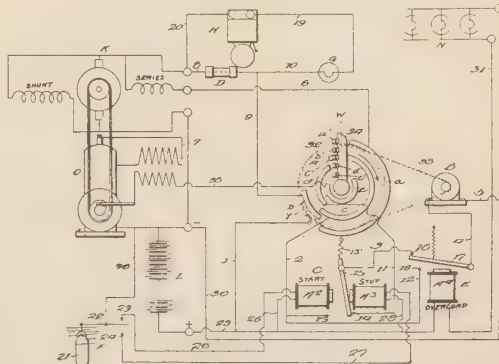


1. In a rotor for electrical machinery, the combination of a hub of cast metal having a central peripheral projection, channel bars radially extending therefrom welded to opposite sides of said projection and having the web of said channel bars facing said projection, a cylindrical ring of metal stock forming an outer field supporting ring, and means for fastening said ring to the ends of said bars to form a rim for said hub.

1,422,415. AUTOMATIC ELECTRICAL CONTROLLING DEVICE. CARL F. P. CARRIER, Philadelphia, Pa. Filed Oct. 9, 1919. Serial No. 329,440. 4 Claims. (Cl. 290—30.)

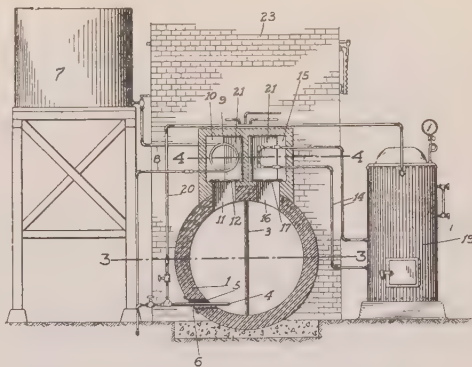
1. In a system for generating and distributing electricity, a dynamo electric machine having both shunt and series windings, a prime mover mechanically connected to said machine, a storage battery, a switching device means responsive to the electrical condition of the battery for automatically operating said switching device, and

means, controlled by said switching device, for either connecting the battery to said machines so as to utilize the shunt winding only, when the machine is acting as



a generator, or for connecting said battery to the machine in such manner as to utilize the series winding when said machine is acting as a motor.

1,422,416. COMBUSTION AND MIXING CHAMBER FOR DEHYDRATORS. FRANK C. CHAPMAN, Modesto, Calif. Filed Sept. 28, 1920. Serial No. 413,452. 7 Claims. (Cl. 158—1.)

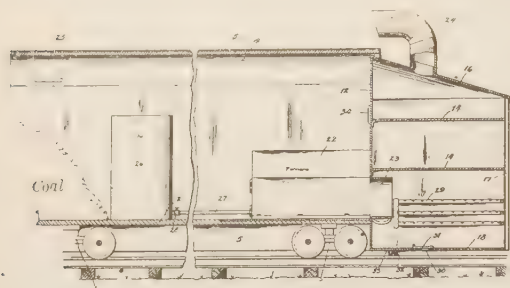


4. A device of the character described, including a combustion chamber, oil burners projecting thereinto, a steam supply pipe connected to said burners, a pair of independent chambers communicating with the combustion chamber, the oil supply pipe passing through one chamber and the steam pipe passing through the other, and means for independently regulating the amount of heat which may enter said chambers.

1,422,417. SNOWPLOW. ELI CLAYBORNE, Hot Springs, Ark. Filed Dec. 4, 1920. Serial No. 428,232. 2 Claims. (Cl. 37—60.)

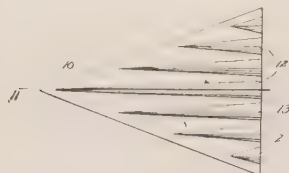
1. The combination of a car, a hollow plow carried by the car and covering the entire front end of the same, a vertical partition extending across the front end of the car and forming the back wall of the plow, a door in said partition to establish communication between the car and the plow, horizontal partitions secured upon and projecting forwardly from said vertical partition across the plow, the forward edges of said horizontal partitions

being supported upon but in spaced relation to the front walls of the plow, a smoke pipe rising from the roof



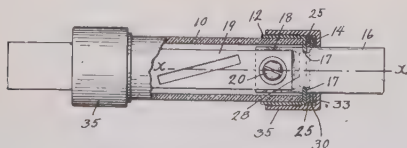
of the plow, and a heater within the car having an outlet extending through the vertical partition and into the plow below the bottom horizontal partition.

- 1,422,418. SUBSOIL ATTACHMENT FOR PLOWS. HENRY H. COLBY, Tallula, Ill. Filed Nov. 26, 1920. Serial No. 426,560. 3 Claims. (Cl. 97—32.)



3. A subsoil attachment of the character specified comprising a substantially flat blade having its longitudinal edges tapering to a point at its forward end, a carrying member projected upwardly from the central longitudinal part of the blade and a plurality of laterally spaced raised portions extending longitudinally of the blade and on opposite sides of the vertical carrying member, said portions tapering towards their forward ends to a point flush with the upper surface of the blade and in spaced relation to the leading edges of the latter, the upper surface of each portion being on a rearwardly inclined plane for lifting and depositing the subsoil rearwardly of the advancing blade to form moisture-retaining furrows below the surface of the ground.

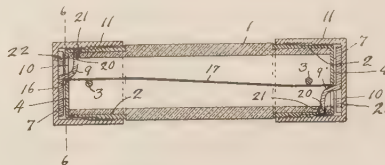
- 1,422,419. RENEWABLE FUSE. FRANKLIN N. CONANT, Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company, a Corporation of Massachusetts. Filed July 10, 1919. Serial No. 309,813. 4 Claims. (Cl. 200—132.)



4. In an enclosed electric fuse of the cartridge type, the combination of a ferruled insulating fuse casing having an interned lip at the end of the ferrule with oppositely disposed notches, a fusible element having a terminal blade with notches in its edges for engaging said lip by way of the notches therein, a holding plate for the terminal blade which substantially closes the open end of the casing, and lips fitting with the notches in the ferrule flange and other

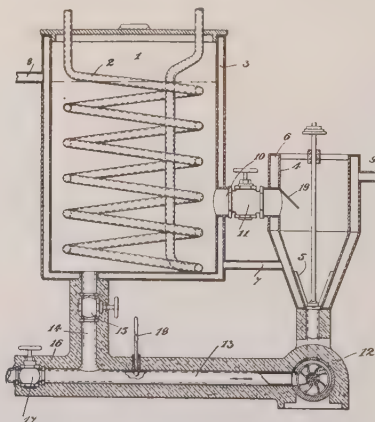
lips hugging the terminal blade with spring pressure, a yielding packing washer snugly fitting the blade and extended over the holding plate, a metal washer arranged over said yielding washer, and an end cap exerting pressure on said washer and holding the parts assembled.

- 1,422,420. RENEWABLE FUSE. FRANKLIN N. CONANT, Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company, a Corporation of Massachusetts. Filed July 26, 1919. Serial No. 313,580. 17 Claims. (Cl. 200—132.)



16. In an enclosed electric fuse of the cartridge type, the combination of a ferruled casing having an apertured side wall and an end wall with an aperture having a straight side, a fuse strip having its end portion extended through said aperture and bent over the straight side thereof, a removable plate having a projection which enters the aperture and having a tongue on said projection which enters the aperture in the side wall of the casing and having projections for engaging the end of the casing.

- 1,422,421. METHOD AND APPARATUS FOR MIXING SOLID MATERIALS WITH LIQUIDS. ORIN D. CUNNINGHAM, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 21, 1920. Serial No. 405,198. 9 Claims. (Cl. 23—3.)

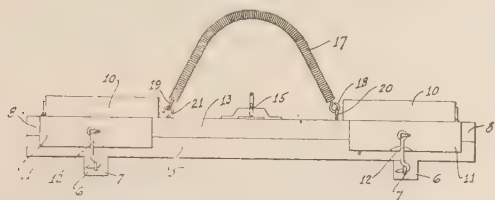


1. The method of effecting the admixture of solids with liquids at low temperatures, which comprises circulating the liquid from and to a cooling chamber through a mixing chamber of relatively small capacity, admixing the solid with the liquid in the mixing chamber with vigorous agitation and continuously returning the liquid with the admixed solid and reaction products to the cooling chamber, the rate of addition of the solid and the rate of circulation of the liquid being so regulated as to maintain the desired low temperature.

- 1,422,422. FOLDING FEED BOX. MESHACK DAVIS, Schlater, Miss. Filed Aug. 13, 1921. Serial No. 491,963. 2 Claims. (Cl. 217—15.)

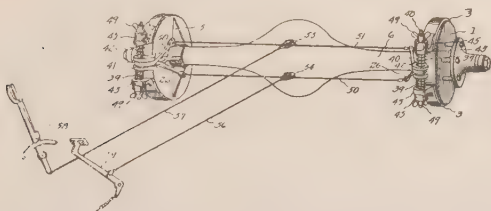
1. A device of the character described comprising a receptacle, a yieldable bail connected at one end to one of

the foldable members of the receptacle, and adapted to extend around a suitable support, and means carried by



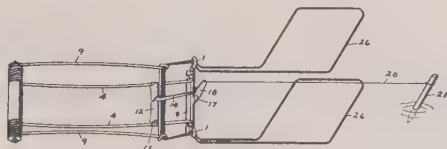
said member of the receptacle for the reception of the opposite end of the bail to hold said bail in binding engagement with the support.

1,422,423. BRAKE MECHANISM. HUGO DOTZER and SAMUEL G. BARNARD, Seattle, Wash.; said Barnard assignor to said Dotzer. Filed Mar. 9, 1920. Serial No. 364,438. 2 Claims. (Cl. 188—204.)



1. In a vehicle of the character described, the combination with wheels at opposite sides of the vehicle having braking mechanism and arms movable to actuate the braking mechanism, of a cable connected at its ends to the ends of said arms and drawn taut between them, a brake lever and a connecting means fixed at one end to the brake lever, and at its opposite end having a movable connection with the first named cable whereby tension by actuation of the brake lever causes actuation of the brake arms and automatic adjustment of the connection along the arm connecting cable whereby equalization of tension on both braking mechanisms is effected.

1,422,424. ANIMAL TRAP. WILLIAM DUNN, Bannack, Mont. Filed Dec. 24, 1920. Serial No. 432,898. 3 Claims. (Cl. 43—87.)

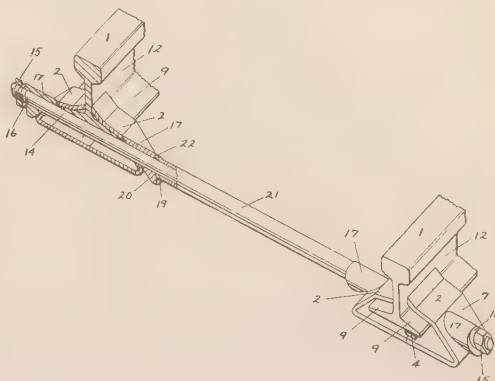


1. In an animal trap, the combination with a frame, one portion of which is adapted to be bent upon the other part, of locking means for holding it in its closed position, an eye at each outer corner end of the lower portion of the frame, a looped cable secured to each outer corner end of the bent-over portion of said frame and projecting forwardly through a respective eye on the lower portion of the frame, a substantially wide loop formed on each cable end beyond its respective eye, and means adapted to be actuated by an animal to release the locking means, whereby the bent-over portion of the frame will spring upwardly and rearwardly to draw the looped ends of the cable tightly about said animal, for the purpose specified.

1,422,425. TRACK BRACE. WILLIAM DUNN, Bannack, Mont. Filed Dec. 24, 1920. Serial No. 432,899. 3 Claims. (Cl. 238—53.)

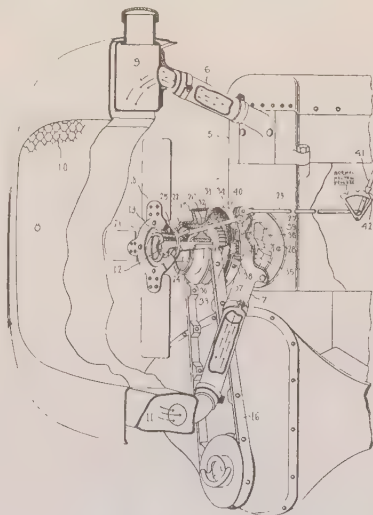
1. In a device of the type described, the combination with a pair of rails in track alinement, of compression means between said rails, a tension member passing

beneath the rails and bearing on the under surface of each one of the latter, a clamping plate bearing on each side of the web of each rail and the upper surface of the



base of the latter, and wedge-shaped sleeves mounted on the tension member between the ends of the latter and the ends of the compression means for the purpose specified.

1,422,426. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. WARREN H. FARR, New York, N. Y., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 10, 1919. Serial No. 303,086. 18 Claims. (Cl. 123—170.)

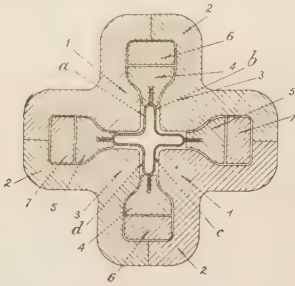


1. In a cooling system for internal combustion engines, a radiator through which a cooling liquid may flow; conduits connecting the upper and lower ends of the radiator with the cooling jacket of the engine; and means for causing the cooling liquid to flow through the cooling system provided by the elements aforesaid in a direction the reverse of the direction in which the said cooling liquid normally flows.

1,422,427. ELECTRIC APPARATUS FOR PROPELLING PROJECTILES. ANDRÉ LOUIS OCTAVE FAUCHON-VILLEPLÉE, Paris, France. Filed Apr. 1, 1919. Serial No. 286,799. 4 Claims. (Cl. 172—285.)

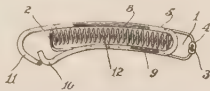
1. An electric gun comprising in combination energizing bars adapted to create a field of electric forces extending over the whole length of the gun, a plurality of rails adapted to act as current feeding means and to guide in a direction at right angles to said field of forces, a projectile provided with an equal plurality of wings, said rail being provided with grooves in which said wings are

adapted to slide, the rails and bars being arranged parallel to each other in groups which are located at diametrically



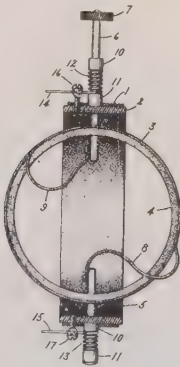
opposite points around the longitudinal axis of the gun, and means for supporting the rails and bars.

1,422,428. BRACELET LINK. ORTO FESSLER, Irvington, N. J. Filed Apr. 4, 1919. Serial No. 287,460. 13 Claims. (Cl. 24—236.)



3. In a link of the character described, the combination with opposite side parts having their adjacent faces recessed, of a middle part between said side parts in the form of a looped strip having at its lateral edges ears offset inwardly from that portion of its outer surface between said ears, said ears projecting into the recesses of said side parts to hold the middle part against displacement from between the side parts, and said portion of the outer surface of the middle part between said ears being substantially flush with the edges of the side parts.

1,422,429. CONNECTION FOR ELECTRICAL APPARATUS. CHARLES D. FULKINS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 21, 1919. Serial No. 291,608. 6 Claims. (Cl. 171—242.)

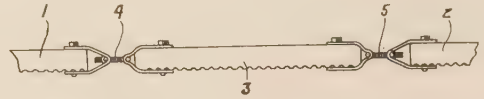


1. The combination in an apparatus of the class described of a fixed element, a movable element mounted on a trunnion so as to be capable of rotation with respect to said fixed element, and means for making an electrical connection to said movable element comprising a fixed coiled conductor surrounding said trunnion and in frictional engagement therewith.

1,422,430. FASTENING FOR DRIVING BELTS. ALEXANDER JOHN FORBES, Brooklea, North Kessock, Scotland. Filed Feb. 9, 1921. Serial No. 443,648. 1 Claim. (Cl. 24—32.)

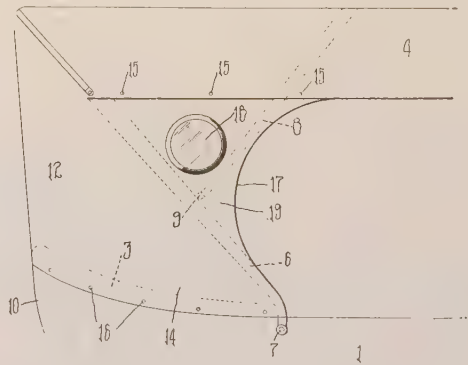
In a driving belt, an adjustable fastening comprising a flexible belt section of substantial length and of substan-

tially the same cross-sectional figure as the driving belt, a pivoted left-hand screw coupling between one end of said flexible section and the belt and a pivoted right-hand screw coupling between the belt and the other end of said flexible section, each coupling comprising a slotted clip secured to one end of the flexible belt section, a screw



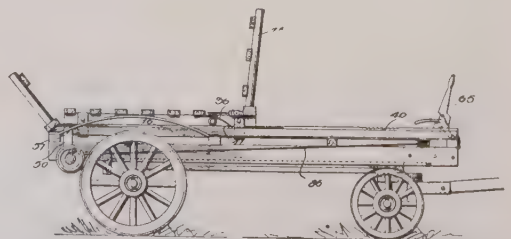
pivoted to said clip and movable in said slot, a second slotted clip secured to the belt, said screw passing freely through the slot of said second clip and an adjustable crosshead on said screw, said cross head being embraced by said second clip so that the pair of clips are movable towards each other but restrained from movement in the opposite direction.

1,422,431. COMBINATION BACK AND SIDE CURTAIN. KINGSTON FORBES, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 1, 1920. Serial No. 362,389. 3 Claims. (Cl. 296—138.)



2. In a device of the class described, a vehicle body, a top, supports for supporting said top from said body, a back curtain secured to the rear of said body and top, side curtains secured to said back curtain and extending forwardly therefrom, a wing portion secured to the forward portion of each of said side curtains, said wing portions being detachably connected to said top, and terminating short of said body, substantially as shown and described.

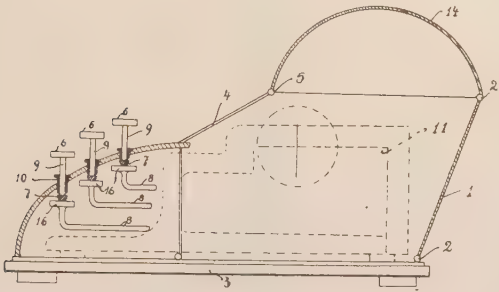
1,422,432. HAY LOADER. PERCY LLOYD FORBES, West Middlesex, Pa. Filed May 13, 1921. Serial No. 469,181. 10 Claims. (Cl. 214—81.5.)



1. In a device of the character described, a frame, ground wheels therefor, tracks on said frame, a carriage on said tracks, driving mechanism for said carriage including a pair of swinging bearings, a winding shaft

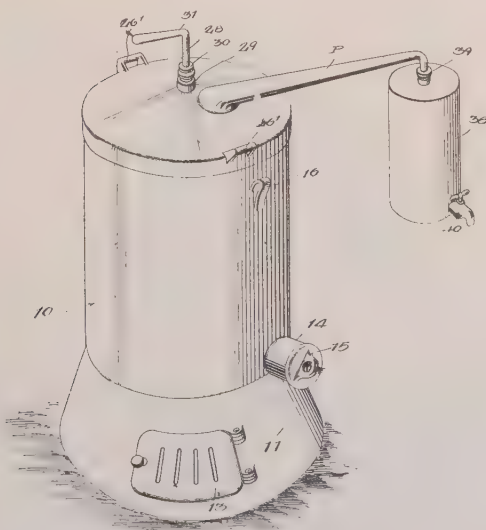
journaled in said bearings and a pair of driven friction gear wheels connected to said winding shaft and engageable with said ground wheels, controlling means for said drive mechanism adapted to yieldingly move said gear wheels into operative engagement with said ground wheels and to positively move said gear wheels out of engagement with said ground wheels, and motion transmission means between said winding shaft and said carriage.

1,422,433. TYPEWRITING MACHINE. RUDOLF FRIES, Berlin-Schöneberg, Germany. Filed Sept. 3, 1920. Serial No. 408,096. 2 Claims. (Cl. 197—186.)



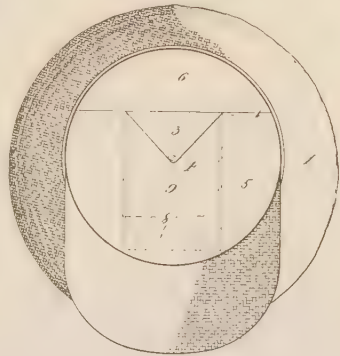
1. Sound deadening device for typewriting machines which comprises a sound-proof casing adapted to enclose the typewriter and to be hingedly secured at its lower rear portion to the base-plate upon which the typewriter is mounted so as to be freely movable about its hinges into and out of operative position; a hinged window carried by said casing at the front part thereof; a hinged lid carried by the top part of the said casing; and a plurality of keys carried by said casing, in position to engage the keys of the typewriting machine when the casing is in operative position.

1,422,434. METHOD OF EXTRACTING FERTILIZING ELEMENTS FROM MANURE. COLL E. GARDAN, Wilson Creek, Wash. Filed June 1, 1922. Serial No. 565,097. 3 Claims. (Cl. 71—6.)



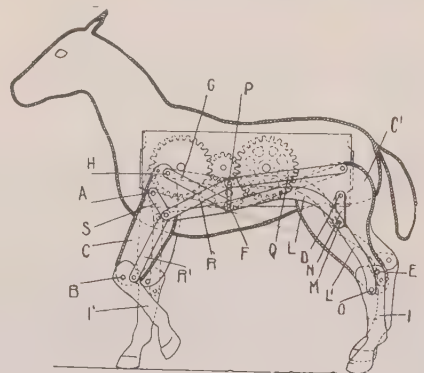
1. The method of extracting fertilizer elements from manure which consists in cooking manure in an aqueous suspension, and then submitting the manure to pressure while in said suspension.

1,422,435. CAP. HAROLD S. GOODING, Medford, Mass. Filed Sept. 7, 1920. Serial No. 408,416. 1 Claim. (Cl. 2—113.)



The combination in a cap, of a lining for the cap, said lining comprising separate sectional parts, a piece placed between said sectional parts of said lining, means for stitching said piece to the one sectional part of said lining whereby said piece and said sectional part of the lining may co-operate with one another to form a pocket presenting an open end, said piece having an extension forming a flap closing said open end of the pocket, a releasable fastener for holding the flap in place, and means for securing the other sectional part of said lining to said piece along the base edge of said flap and also to the said one sectional part of the lining on opposite sides of the open end of said pocket.

1,422,436. MOTION DEVICE FOR AUTOMATONS. FRANCESCO GORGELLINO, Turin, Italy. Filed Nov. 20, 1919. Serial No. 339,412. 4 Claims. (Cl. 46—40.)

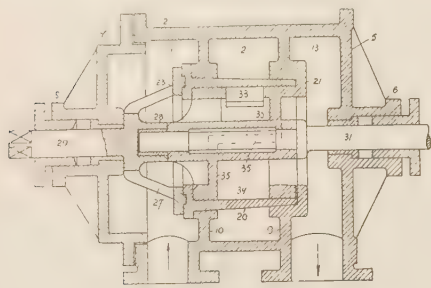


1. In a device for producing life-like relative movement between the parts of mechanical toys, the combination with a body portion, of an articulated leg, comprising an upper portion jointed to the body portion and a lower portion jointed to the upper portion, and an operating mechanism comprising a separate crank arm for each of said leg portions, a separate operating connection from each of said crank arms to its respective leg portion, and means for causing said crank arms to rotate in a predetermined relation.

1,422,437. VALVE FOR STEAM ENGINES. GIJSBERTUS GROENWEGEN, Delft, Netherlands. Filed Dec. 27, 1918. Serial No. 268,488. 2 Claims. (Cl. 121—140.)

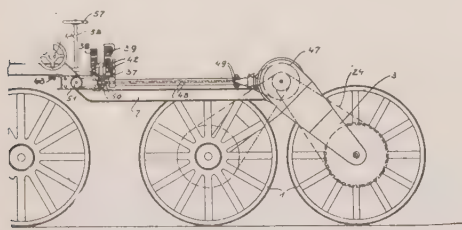
1. A valve, comprising a casing having a chamber formed therein and provided with a plurality of passages disposed at opposite sides of and in communication with

said chamber, said passages being arranged in pairs diametrically opposite each other, a shaft mounted for rotation in one end of said casing and carrying a valve liner having a pair of openings disposed in position to be brought into register with either pair of said passages, a shaft journaled at its opposite ends respectively in one



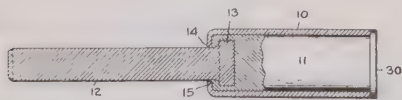
end of the casing and in the end of said first shaft and carrying a valve rotatable within said valve liner, said valve having a pair of chambers one in communication with a source of fluid supply and the other in communication with an exhaust outlet and provided with openings disposed in position to alternately communicate with the openings in said valve liner.

1,422,438. MOTOR TRACTOR. ERHARD GRÜBLER, Borsdorf, near Leipzig, Germany. Filed Oct. 3, 1921. Serial No. 505,007. 14 Claims. (Cl. 180—21.)



1. In a motor tractor the combination of a body frame, two rear road wheels, and means connecting said road wheels to said frame whereby said wheels are adjustable in the direction of travel and also at right angles to the planes of rotation.

1,422,439. ANODE FOR LUMINOUS ARC LAMPS. CROMWELL A. B. HALVORSON, Jr., Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,652. 6 Claims. (Cl. 176—121.)

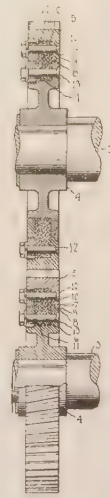


1. A positive electrode for luminous arc lamps, composed of an iron shell, a stem axially extending through the shell, and a copper core cold compacted in the shell and anchoring the stem.

1,422,440. CUSHIONED GEAR. ALEXANDER C. HAMILTON, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 23, 1919. Serial No. 319,454. 5 Claims. (Cl. 74—29.)

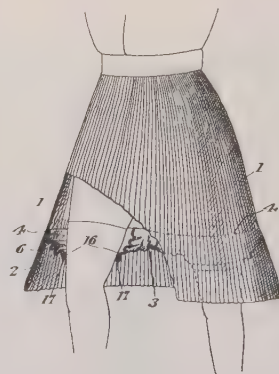
1. A resilient gear of the class described comprising concentric hub and rim portions having an annular channel

formed in their sides and partly in one and partly in the other of said members, and the bottom or end wall of which channel is formed by annular flanges at the sides of said hub and rim the free edges of which flanges engage with one another to thereby prevent lateral movement of said rim; an annular yieldable connecting member lo-



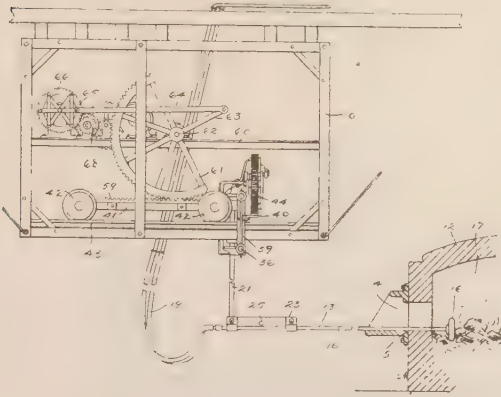
cated within said channel; two concentric retaining rings located within the open side of said channel and overlying said connecting member; and two series of fastening bolts one extending through one of said retaining rings, through said connecting member and through one of the side flanges aforesaid, and the other series through the other of said side flanges.

1,422,441. ATHLETIC SKIRT. ANNE HARMON, Irvington-on-the-Hudson, N. Y. Filed Apr. 10, 1920. Serial No. 372,743. 2 Claims. (Cl. 2—139.)



1. A skirt having a flexible diaphragm embodying depending leg-portions each being constructed from a piece of material having one straight long-side, end-edges formed at right-angles to said straight long-side, an opposite long-side which flares away from said straight long-side toward its ends to form a short outer side for the depending leg-portion, and an extended central panel to form long inner sides for both leg-portions and to the side-edges of which are connected the straight end-edges of the leg-portions, the flaring edges of said leg-portions and the front and rear edges of said central panel being secured all around the inner side of the skirt between the bottom edge and the waist-line thereof.

1,422,442. AUTOMATIC POKER. THOMAS MICHAEL HAUGH, LE ROY CRIS SCHILLING, and JOHN WESLEY FINCH, New Britain, Conn., assignors to The Eastern Malleable Iron Company, New Britain, Conn., a Corporation. Filed Jan. 14, 1918. Serial No. 211,855. 7 Claims. (Cl. 214—23.)

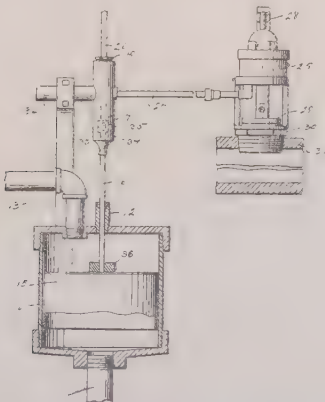


1. In combination in a poker structure, a rail supported truck having a limited to and fro movement, a frame operatively supported by the said truck for limited to and fro movement in the transverse direction, a poker structure connected to the said frame, and tripping mechanism operative to periodically effect a movement of the said frame and poker responsive to such to and fro movement of the truck.

1,422,443. LEADING-IN WIRES FOR INCANDESCENT ELECTRIC LAMPS. FREDERICK HOGE, Zoug, Switzerland. Filed Feb. 26, 1919. Serial No. 279,418. 1 Claim. (Cl. 176—36.)

For incandescent lamps, high vacuum apparatus and the like, a leading in wire or conductor made of ignoble cheap metal having a coating composed of eight parts by weight of tungsten and one part by weight of fused glass.

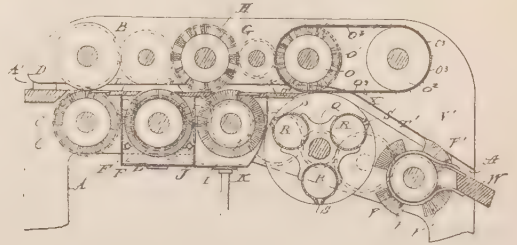
1,422,444. CONTROLLER FOR AUTOMATIC VACUUM BREAKERS. WALDO A. HOWLAND, Adams, Mass. Filed Apr. 14, 1921. Serial No. 461,359. 4 Claims. (Cl. 137—103.)



1. In a mechanism of the character described, a controlling valve comprising a hollow valve body formed with an annular seat, a valve normally resting on said seat, an inlet pipe entering the valve body above the seat and valve, an outlet pipe below the seat, and a tubular stem entering the opposite end of the valve body from the inlet pipe and having a diameter smaller than the diameter of

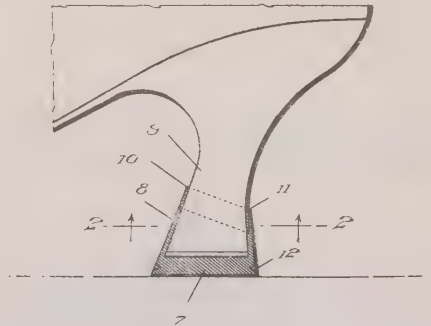
the aperture in the annular seat, said stem having that end adjacent the valve open and having an outlet port in its length, the stem when shifted in one direction lifting the valve from its seat and permitting fluid to pass from the inlet pipe to the outlet pipe, said stem when lowered permitting the return of the valve to its seat and constituting an exhaust pipe.

1,422,445. RUG-SCOURING MACHINE. KENNETH C. JONES, Chagrin Falls, and JAMES H. JONES, Cleveland Heights, Ohio. Filed Apr. 12, 1920. Serial No. 373,163. 3 Claims. (Cl. 15—7.)



2. In a machine for scrubbing rugs, a vacuum roll and means for feeding said rug to said roll, a multiple number of suction chambers in said roll, each chamber having a suction opening and a spring pressed valve in each opening, each valve provided with a projection engaged by said rug in passing.

1,422,446. RUBBER HEEL. LOUIS KAPLAN, New York, N. Y. Filed May 27, 1921. Serial No. 473,144. 2 Claims. (Cl. 36—72.)

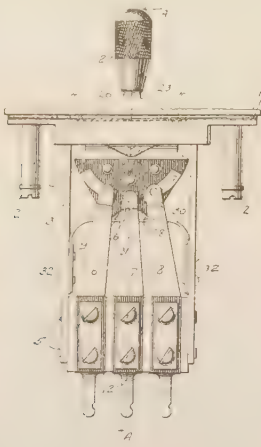


1. A detachable heel having a marginal retaining flange to embrace the heel of an article of foot wear, and an elastic band to embrace the second named heel having one portion connected to the corresponding portion of said flange and its opposite portion free to be disposed at the opposite portion of the second-named heel above said flange.

1,422,447. SWITCHING KEY. LE ROY WILSON KELSAY, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,338. 3 Claims. (Cl. 179—176.)

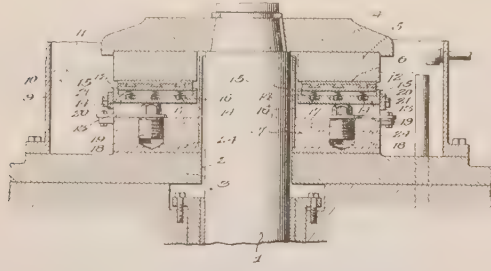
3. A switching key comprising a rectangular frame, contact springs attached to one end of said frame and parallel thereto, an oscillatory member pivotally supported at the opposite end of said frame and operable in a plane parallel

thereto, connecting blocks on said oscillatory member cooperating with said springs, and contact centering means



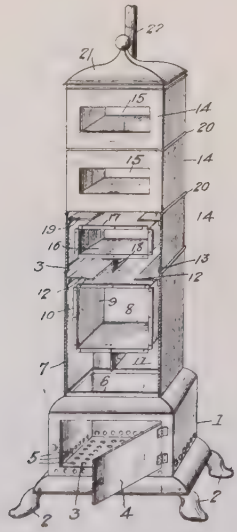
cooperable with said oscillatory member and supported on said frame intermediate the ends thereof.

1,422,448. BEARING. ALBERT KINGSBURY, Greenwich, Conn. Filed May 16, 1921. Serial No. 470,044. 26 Claims. (Cl. 64—25.)



1. A bearing comprising relatively movable bearing members one of which includes a plurality of two-part bearing shoes and distributed elastic means associated with each shoe for supporting one part of said shoe from the other.

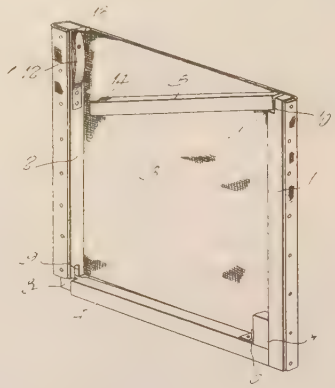
1,422,449. PORTABLE HEATER. LOUIS O. KOCH, Little Rock, Ark. Filed June 14, 1921. Serial No. 477,378. 3 Claims. (Cl. 126—90.)



1. A heater comprising a base containing an open top compartment to receive the heating element, a series of

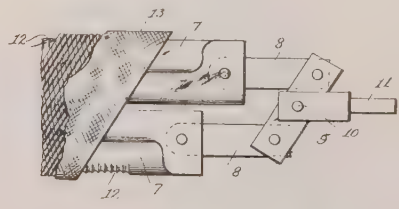
superposed removable radiator sections each provided with a transverse open air flue, baffle plates carried by the bottoms of the flues and the side walls of each section, a cover for the upper section, and a vent pipe connected with said cover.

1,422,450. COVERED FOLDING FRAME. CARL R. KOSITZKY, Bismarck, N. Dak. Filed Nov. 8, 1920. Serial No. 422,727. 3 Claims. (Cl. 45—46.)



2. A device of the class described comprising a pair of side bars, a flexible sheet secured at two opposite edges thereto, a pair of spacing bars hinged to one of said side bars and adapted to extend between and to abut said side bars to space the same and stretch said sheet, means for holding one of said spacing bars in operative relation with one end of the other side bar, and an inwardly bowed spring anchored at one end to the other end of said other side bar, said spring having its free outer end bent laterally to form a stop for the other spacing bar, said spring being adapted to frictionally bind against the last-named bar end.

1,422,451. METHOD OF MAKING RUBBERIZED TIRE FABRIC. FREDERICK A. KRUSEMARK, Roanoke, Va., assignor to K. F. & C. Tire & Rubber Corporation, Roanoke, Va., a Corporation of Virginia. Filed Dec. 13, 1920. Serial No. 430,440. 3 Claims. (Cl. 154—2.)



2. The method herein described of making a two-ply tire fabric consisting in first making a flat tube of coiled cord, with the cords running diagonally, then applying an open-weave fabric to the outer face of the tube thus formed, and then longitudinally slitting the tube to form a fabric having one layer consisting of diagonally-arranged cords and the other layer of open-weave fabric.

1,422,452. DENTAL-PLATE ANCHORAGE. EDWARD H. LACE, Vandergrift, Pa. Filed Apr. 6, 1922. Serial No. 550,113. 2 Claims. (Cl. 32—12.)

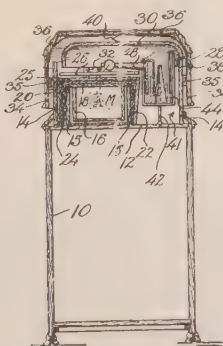
1. The combination with an anchoring natural tooth

having a metal cap competely housing and permanently applied thereto, of a plate carrying artificial teeth and



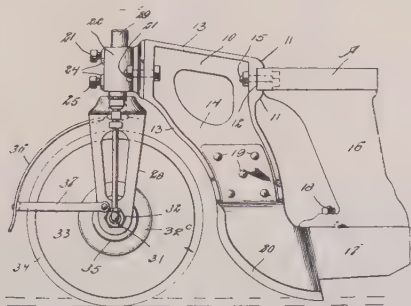
having a metal overcap shaped to snugly fit the capped anchoring tooth and to be removably mounted thereon.

1,422,453. PHONOGRAPH. PETER J. LANDIN, Denver, Colo. Filed Sept. 23, 1920. Serial No. 412,262. 6 Claims. (Cl. 274—2.)



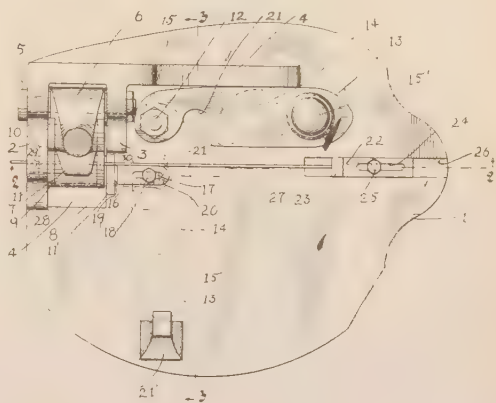
1. In a phonograph, a casing having upstanding walls, sound reproducing means within said walls, said means comprising a pivoted amplifier having a tone arm thereon, said amplifier opening within said walls, and a hooded sound deflecting member above said amplifier but spaced from certain of said walls for the passage of sound vibrations.

1,422,454. COMBINATION ROLLING CUTTER AND SHOE-FURROW OPENER FOR CORN PLANTERS. LAMBERT H. LANGLAND, Windom, Minn. Filed Feb. 14, 1921. Serial No. 444,870. 2 Claims. (Cl. 111—85.)



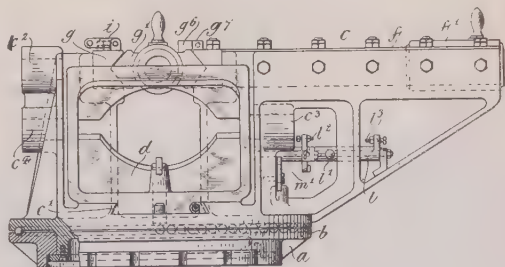
1. A corn planter attachment comprising in combination with a frame, a supporting member secured to the forward end of the frame, a boot depending from the frame, a shoe secured to the lower end of a boot and to the lower end of said support, a bearing member secured to the forward end of said support, a member having a cylindrical shank slidably and rotatably adjustable within said bearing frame, and a cutting disk journaled within said last named member.

1,422,455. WIRE-BENDING MACHINE. PHILIPP LIVA, Brooklyn, N. Y. Filed Nov. 20, 1920. Serial No. 425,430. 12 Claims. (Cl. 140—71.)



1. A wire bending and cutting device comprising in combination a base, a bending member pivotedly connected to said base adapted to swing in horizontal direction, said bending member being provided at its under-surface with an arcuated die, a lever swingably mounted on said base provided at its outer end with a cutter and at its inner end with a bender, said lever being adapted to swing in a vertical direction, an aperture formed in said base near the cutter end of said lever adapted to receive a wire to be bent, an adjustable stop member secured to said base and disposed opposite said aperture, a stationary clamping member secured to said base adapted to hold said bending member in a fixed position during the subsequent operation of said lever, and an adjustable die secured to said base near said lever and disposed on a line with said aperture.

1,422,456. BORING MACHINE. WALTER P. LOTZ, New Brunswick, N. J., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 3, 1921. Serial No. 442,185. 4 Claims. (Cl. 77—62.)



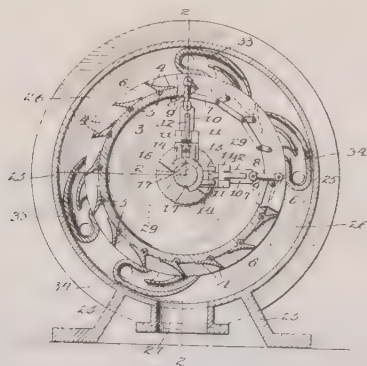
1. In a machine for boring or the like, in combination with a power shaft, a revolvable fixture, a work support on the fixture, a plurality of reciprocable cutting tools mounted on the fixture in different horizontal planes and adapted to move in paths at an angle to each other, and means to index the fixtures for connection of any one of said tools with said power shaft, as selected.

1,422,457. TROLLING LURE. THOMAS G. McCLANAHAN, Seattle, Wash. Filed Nov. 19, 1920. Serial No. 425,062. 1 Claim. (Cl. 43—45.)



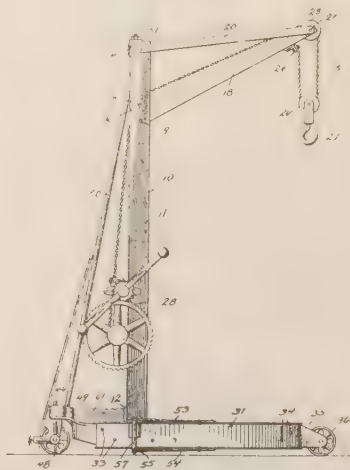
A fishing lure comprising an elongated metal body having its rear end substantially spoon shaped and its forward end substantially straight, and a longitudinal slot extending through said body along the center line forwardly from said spoon shaped portion.

1,422,458. REVERSIBLE FLUID-PRESSURE TURBINE. JOHN WM. MCGOVERN, Port Alice, British Columbia, Canada. Filed Oct. 11, 1920. Serial No. 415,982. 2 Claims. (Cl. 253—51.)



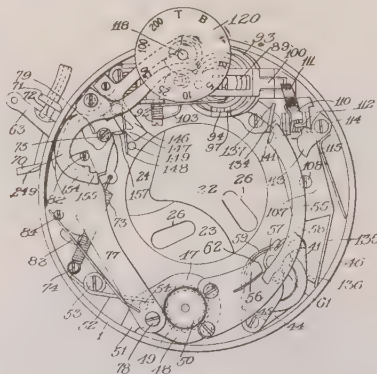
1. A reversible turbine, comprising in combination, a driving head rotatably mounted within a casing, ports angularly directed on the rim of the driving head toward one direction of rotation, ports angularly directed on the periphery of the driving head toward the other direction of rotation, means for directing a fluid under pressure to either one or the other set of ports, double vanes set at an obtuse angle to one another pivotally mounted on the periphery of the driving head at the junction of the two vanes to project one set of vanes or the other angularly toward the direction of the fluid delivery, a lever secured to the pivot of each pair of vanes and projecting angularly toward the central portion of the driving head, links connecting these levers together in groups, means applied to each group for simultaneously reversing the angle of projection of the vanes, and means for directing the flow of the fluid under pressure through the ports toward which the vanes are directed.

1,422,459. PORTABLE FLOOR CRANE. ROBERT E. MANLEY, York, Pa., assignor to The Manley Manufacturing Company, York, Pa., a Corporation of Pennsylvania. Filed July 27, 1920. Serial No. 399,384. 5 Claims. (Cl. 212—142.)



1. A hoist structure consisting of a superstructure, hoisting means carried thereby, a base for said superstructure, a tension member connecting said superstructure and said base, said base consisting of a cast metal portion in the rear of said superstructure, and rolled metal sections in front of said superstructure.

1,422,460. PHOTOGRAPHIC SHUTTER. PAUL J. MARKS, Rochester, N. Y. Filed Oct. 27, 1919. Serial No. 333,838. 79 Claims. (Cl. 95—63.)

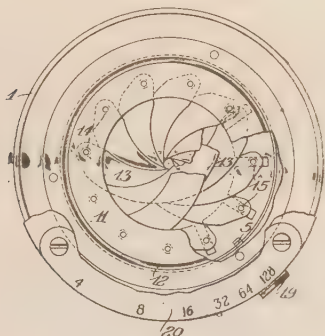


2. In a shutter, the combination of a casing having an aperture there through, a plurality of blades movably mounted in said casing for opening and closing said aperture, each of said blades having an opening for admitting light from the margin of the aperture simultaneously with the admission of light from the center thereof during the opening and closing movements of the blades, and means for moving the blades.

1,422,461. IRIS DIAPHRAGM. PAUL J. MARKS, Rochester, N. Y. Original application filed Oct. 27, 1919, Serial No. 333,838. Divided and this application filed Mar. 25, 1920. Serial No. 368,657. 9 Claims. (Cl. 95—64.)

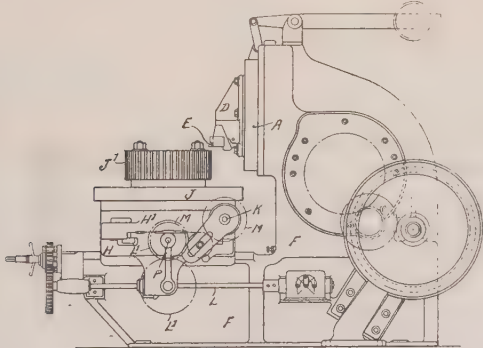
1. In an iris diaphragm, the combination of a casing having an aperture there through, said casing having a

slot and provided with a circumferential groove in its outer wall, a diaphragm comprising a plurality of movable wings for controlling the admission of light through said aperture, a movable ring for controlling the position



of the wings, a second ring movable in the groove in the external wall of the casing, and a lug on said second ring projecting through the slot in the casing wall and operatively connected with the first mentioned ring.

1,422,462. GEAR CUTTING, SLOTTING, AND LIKE MACHINE. JAMES HENRY MELLO and WILLIE OWEN, Manchester, England, assignors to Wm. Muir and Company Limited, Manchester, England. Filed Feb. 19, 1920. Serial No. 359,893. 8 Claims. (Cl. 90—9.)

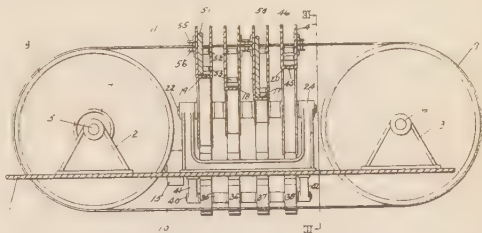


1. In a gear cutting machine, the combination with a constantly moving reciprocable cutter and a work-carrier mounted for reciprocation across the path of said cutter, of means for imparting to said work-carrier a step per stroke movement in one direction, and means for automatically imparting a quick return movement to said work-carrier after the desired complete pitch distance has been traversed, said movements occurring respectively during movement of the cutter away from and toward the work-carrier.

1,422,463. EDGER. ARNO MEREEN, Berkeley, Calif. Filed Oct. 12, 1920. Serial No. 416,350. 3 Claims. (Cl. 143—26.)

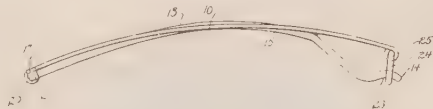
1. In a device of the class described, a band saw having a horizontal cutting run, a plurality of substantially parallel spaced endless conveyors having a path of travel beneath and substantially at right angles to said band saw, a plurality of co-axial pulleys mounted on a common shaft on each side of said band saw and traversed by said conveyors, the pulleys on the same side of the saw being of different diameters and the aligned pulleys on opposite sides being of corresponding diameters, a plurality of elongated trough-like feed boxes on one side of said band saw through which said conveyors pass, and a plurality of elongated troughlike receiving boxes on

the other side of said band saws through which the conveyors pass, the receiving boxes being in alignment with the feed boxes, said feed boxes being disposed in sub-



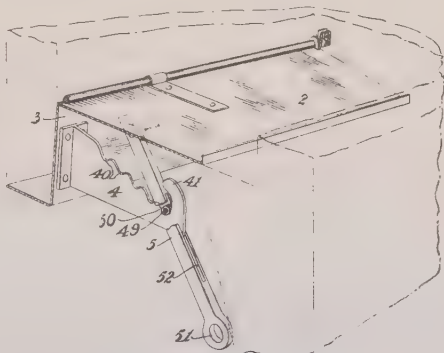
stantially tangential relation to the pulleys on the same side of the band saw and having their bottoms in distinct horizontal planes.

1,422,464. BARRETTE. MILTON D. MESEROLE, Milford, Conn., assignor to Hayes & Meserole Mfg. Co., New Haven, Conn., a Firm composed of said Meserole and George M. Hayes. Filed Nov. 10, 1921. Serial No. 514,232. 6 Claims. (Cl. 132—48.)



1. A barrette, including a bar formed with an opening, a pin hinged to one end of the bar and offset at its opposite end, and a loop hinged to the bar and adapted to engage with the point of the pin.

1,422,465. FIREPLACE DAMPER. GLENN A. MORRELL, Seattle, Wash., assignor of one-half to Charles W. Rodgers, Seattle, Wash. Filed Jan. 18, 1922. Serial No. 530,034. 6 Claims. (Cl. 126—288.)

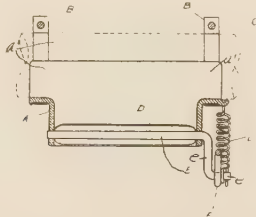


1. A fireplace damper comprising a hinged damper plate, a fixed ratchet bar and an arm hinged to the damper plate outwardly from its pivot and adapted to engage the ratchet bar to hold the damper in raised positions.

1,422,466. MUFFLER CUT-OUT. JOHN MOTT MORSE, Syracuse, N. Y. Filed Feb. 28, 1919. Serial No. 279,903. 1 Claim. (Cl. 251—11.)

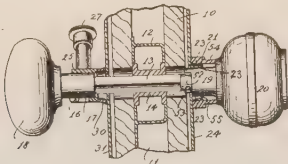
A muffler cutout comprising a body formed with an elongated base, and an oblong box-like portion projecting from the base and extending lengthwise of the same and confining an oblong outlet passage, the base being shaped to seat on a cylindrical exhaust pipe and to extend beyond the ends of the box-like portion, whereby the box-

like portion and the outlet passage extends lengthwise of the exhaust pipe, a damper arranged in the box-like portion, a rock shaft arranged in the box-like portion and the outlet passage extending longitudinally of the box-like



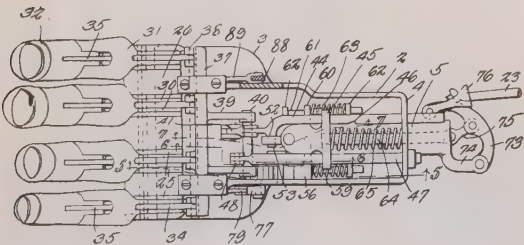
portion and also lengthwise of the damper, clamping means coacting with the projecting end portions of the base for holding the body onto the exhaust pipe and means at the end of the rock shaft for operating said rock shaft, substantially as and for the purpose described.

1,422,467. DOORKNOB LOCK. JOHN NELSON, Bridgeport, Conn. Filed Sept. 13, 1921. Serial No. 500,426. 3 Claims. (Cl. 70—91.)



1. In a lock mechanism of the character described, the combination of a knob spindle for operating a latch bolt, knobs mounted on the opposite ends of said spindle, a lock mechanism contained in one of said knobs including a casing, a sleeve extending into and forming a part of the knob shank, a lock mechanism contained within the casing and including a rotatable key cylinder, an adjustable collar mounted upon the other end of the spindle, and adapted to be set in or out to position the spindle in or out, and means for engagement with the outer knob to prevent its turning when the said spindle and knobs are in their inner position.

1,422,468. ARTIFICIAL ARM. PETER NICOLA, Danville, Pa. Filed May 23, 1922. Serial No. 563,088. 8 Claims. (Cl. 3—12.)

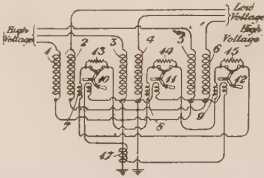


1. In an artificial arm a hand portion including a body, a shaft mounted for rotation, jointed fingers and a jointed thumb operatively connected to said shaft for movement toward or from each other, separate pivotally mounted members for rotating the shaft in opposite directions respectively, a cross head, means for actuating the cross head, and separate means operated by successive movements of the cross head in one direction for actuating the respective pivoted members.

1,422,469. METHOD OF PRODUCING MOLDED ARTICLES OF PURE CELLULOSE. MAURICE G. OLIVIER, Paris, France, assignor to Societe Francaise de Crins Artificiels, Paris, France, a French Corporation. Filed Mar. 31, 1920. Serial No. 370,184. 2 Claims. (Cl. 18—56.)

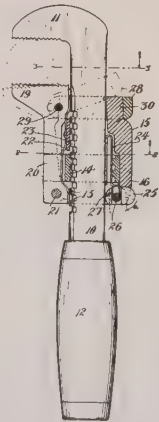
1. The method of producing molded articles of pure cellulose which consists in applying a moistened sheet of pure cellulose to a metal core, raising the temperature of the cellulose coated core to a suitable degree in a heated drying room so as to dry the cellulose and expand the core, and thereafter rapidly cooling the core to cause a shrinkage thereof so as to enable the cellulose article to be freely withdrawn therefrom, substantially as described.

1,422,470. INDUCTIVE-INTERFERENCE-SUPPRESSION DEVICE. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 3, 1920. Serial No. 400,922. 9 Claims. (Cl. 175—294.)



1. In a power transmission system, the combination of a high tension circuit, a low tension circuit, a transformer having main and auxiliary windings, the said main windings being star-connected with a conductor from each neutral point to ground and the said auxiliary windings being delta-connected with a protective device connected therewith, to limit the current in said auxiliary windings, and means connected with the ground conductor from the neutral point of the primary windings to operate said protective device when the current in the ground conductor reaches a certain predetermined value.

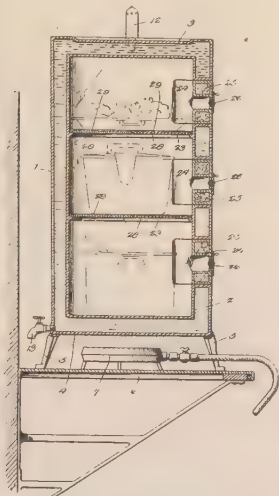
1,422,471. COMBINED WRENCH. GEORGE T. PARSLEY, Ashland, Oreg. Filed Mar. 5, 1919. Serial No. 280,739. 6 Claims. (Cl. 81—157.)



1. An adjustable wrench comprising a shank having a right angled arm, constituting a fixed jaw, and screw threads on the corresponding side of the shank, a cylindrical nut of larger interior diameter enclosing the shank and having threads engageable with those of the shank, a U-shaped frame, the side arms of which extend across the shank sides and between which the nut is turnable, a movable jaw fulcrumed between the open sides of the frame and coacting with the fixed jaw, a yoke fulcrumed to said movable jaw, and turnable to lock upon the frame, and maintain the movable jaw in parallelism with the

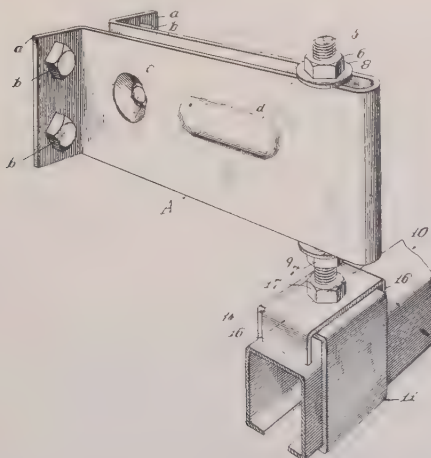
fixed jaw, and a spring between the back of the shank and the interior of the nut, to maintain the screw threads in engagement.

1,422,472. COOKER AND BOILER. WILLIAM A. PENROD, Dayton, Ohio. Filed June 10, 1920. Serial No. 387,893. 2 Claims. (Cl. 126—20.)



1. In an apparatus for the purpose set forth, a double walled cylinder, spaced annular ledges around the inner wall of said cylinder, removable partitions consisting of a plurality of mating sheet metal members for each of said ledges and adapted to rest thereupon and dividing the interior of the cylinder into a plurality of compartments, heat resisting members having the same size and shape as said sheet metal members and adapted to rest thereupon, encased entrance openings being provided in the inner and outer walls of said cylinder, doors for said openings, said doors having recesses filled with heat resisting material, and a damper on each of said doors, said sheet metal members and said heat resisting members being of a size to pass through said entrance openings.

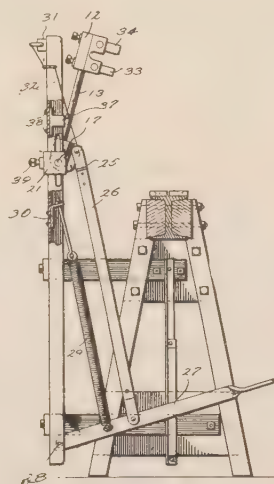
1,422,473. MEANS FOR SECURING OVERHEAD TRACKS IN PLACE. ELLIS J. G. PHILLIPS, Aurora, Ill., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill., a Corporation of Illinois. Filed Nov. 10, 1921. Serial No. 514,251. 5 Claims. (Cl. 104—111.)



1. The combination with an overhead track and means for supporting it in place, said means comprising a

bracket extending over and partially beneath the track, of a pressure member overlying the upper wall of said bracket and resting upon the track, and means for forcing said member firmly down against said track.

1,422,474. STAMP. ORIEN BYRON PICKERING, Endicott, N. Y. Filed Oct. 26, 1921. Serial No. 510,558. 6 Claims. (Cl. 101—3.)



6. In a device of the character described, a vertical standard, a bracket slidably engaging the standard, means for releasably locking the bracket to the standard in adjusted positions therealong, a holder pivotally supported upon said bracket and having a tubular portion extending laterally thereof, and a hammer having a handle held at one end in the tubular portion of said holder and being provided at its other end with a head adapted to hold a die.

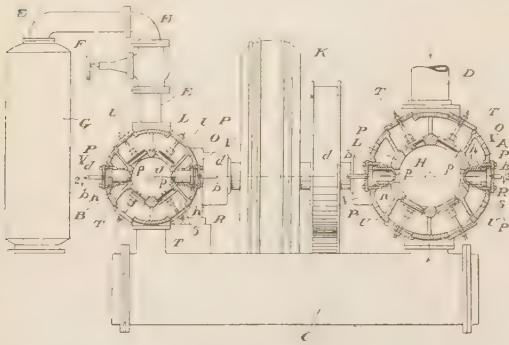
1,422,475. DISTILLING PROCESS. FRITZ POLLAK, Vienna, Austria. Filed May 1, 1920. Serial No. 378,244. 10 Claims. (Cl. 260—138.)

3. The described distilling process which consists in heating a volatile liquid wherein volatile substances are dissolved in small portions to a temperature exceeding the vaporization point of the least volatile constituent and in then condensing the escaping vapors whereby a distillate is obtained, each portion of which contains the same components, no matter what vaporization points the individual constituents of the mixture under treatment may have.

1,422,476. CLEARANCE VALVE FOR COMPRESSORS. WILLIAM PRELLWITZ, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 21, 1921. Serial No. 463,196. 2 Claims. (Cl. 230—24.)

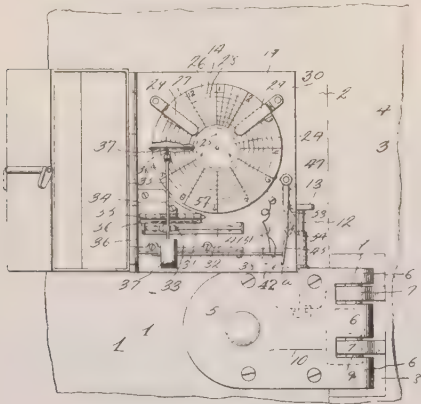
1. In a compressor, a compressor cylinder formed with inner and outer walls having a clearance pocket between them and aligned openings in the walls, a cylindrical valve guide extending inwardly from the opening in the outer wall, said guide having a differential bore and a cover for its outer end, means for admitting pressure from an external source to the outer end of said guide, a cylindrical differential clearance valve of the poppet type movable within said guide and adapted to cooperate with a seat at the said opening in the inner wall of the cylinder, the larger outer pressure area of the valve being subject to said external pressure tending to maintain the valve closed against variable pressure upon the smaller inner

pressure area changing with the stroke of the compressor tending to open the valve, whereby the passage of



fluid from the cylinder to the clearance pocket is controlled in accordance with the load of the compressor at substantially constant compressor speed.

1,422,477. TIME RECORDER. GEORGE PULLMAN, New York, N. Y. Filed Apr. 5, 1921. Serial No. 458,797. 5 Claims. (Cl. 234—1.)

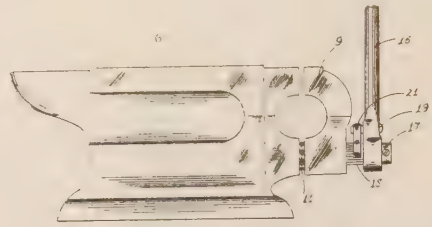


2. A time recording device comprising a casing, a time controlled movable disc carried by said casing, a vertically disposed and horizontally pivoted recording arm carried by the casing, the upper end of said recording arm being provided with a piercing member adapted to cooperate with the time controlled movable disc, a horizontally disposed longitudinally and outwardly movable plate carried by the casing and cooperating with the recording arm for forcing the piercing member carried thereby inwardly, said recording arm being longitudinally movable, a hinged and spring actuated horizontally disposed lug plate carried by the casing, said lug plate being so positioned that the recording arm may be disposed between any of its lugs, and means for actuating the horizontally disposed longitudinally and outwardly movable plate.

1,422,478. HANDLE FOR BLACKSMITHS' VISES. GORDON REES, East New Annan, Nova Scotia, Canada. Filed June 11, 1921. Serial No. 476,815. 3 Claims. (Cl. 81—33.)

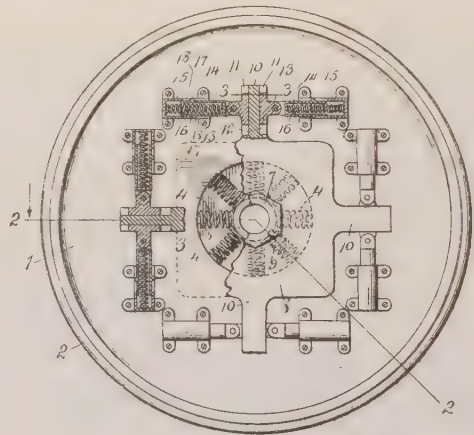
1. A vise comprising a fixed jaw, a movable jaw connected to said fixed jaw, said fixed jaw formed with a bore and counter bore, an extension formed on said movable jaw and adapted for location within said counter bore, a shaft extending through said movable jaw and

extension, said shaft having a toothed section extending through the said bore, a pinion fixedly secured to said shaft, an operating lever loosely mounted on said shaft, a pawl member pivotally connected to said lever and



said pawl member adapted for engagement with said pinion when the said lever is reciprocated in either direction to advance or retract the said movable jaw with respect to said fixed jaw.

1,422,479. VEHICLE WHEEL. NEAL MOORE ROBINSON, Kansas City, Kans. Filed June 21, 1920. Serial No. 390,493. 1 Claim. (Cl. 152—45.)

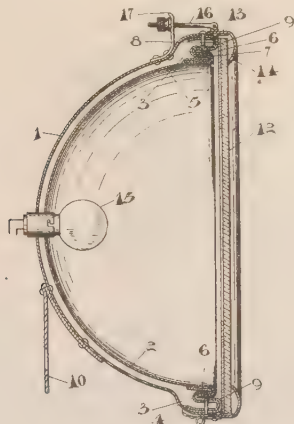


In a vehicle wheel, a body adapted to support a tire, a radially movable hub, resilient means supported by the body and supporting the hub, a driving member mounted on and rotatable with the hub and provided with radial arms, each of which is provided with radial dove-tail grooves on its opposite sides respectively, members respectively slidably fitted in said grooves, bearing members respectively fastened to said slidable members, bearing members secured to said body and respectively slidably engaging the first named bearing members, and compression springs interposed between said pairs of bearing members respectively, the bearing members which are attached to said slidable members being movable tangentially, substantially as set forth.

1,422,480. VEHICLE-LICENSE-NUMBER HOLDER AND ILLUMINATOR. JOHN ELMER RUTHERFORD, Toronto, Ontario, Canada. Filed Sept. 16, 1921. Serial No. 501,180. 7 Claims. (Cl. 40—132.)

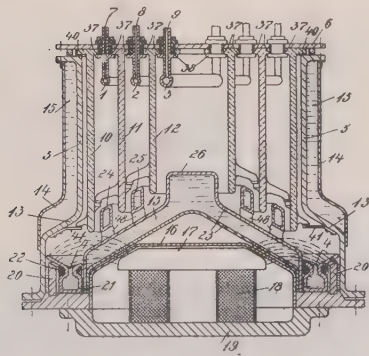
2. In a license number holder and illuminator, an outer open fronted casing; an inner reflector member having its edges substantially paralleling the front edges of the casing; a rim member secured to the edges of the casing and reflector and holding them in spaced relationship and

provided with an outwardly facing seat; a felt covering for said seat having its edges held in position between



parts of the rim casing and reflector; and a transparency holder provided with a flange fitting over the rim and casing.

1,422,481. ELECTRIC VACUUM APPARATUS. MORITZ SCHENKEL and JOSEPH JÜST, Charlottenburg, near Berlin, Germany, assignors to Siemens-Schuckert-Werke G. m. b. H., Berlin, Germany, a Corporation of Germany. Filed Aug. 12, 1916, Serial No. 114,644. Renewed Aug. 27, 1920. Serial No. 406,500. 18 Claims. (Cl. 175—354.)

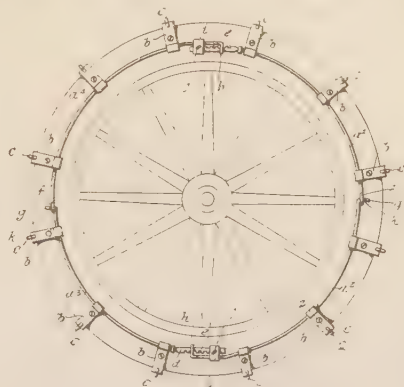


1. In an electric vacuum apparatus the combination with a container and a cathode therein, of a plurality of concentric annular anodes mounted in the container and having different annular diameters and insulating partitions separating said anodes from each other.

1,422,482. FASTENING DEVICE. HERMAN F. C. SCHULTZ and FRED W. SCHULTZ, Youngstown, Ohio. Filed Apr. 12, 1921. Serial No. 460,672. 2 Claims. (Cl. 24—206.)

1. In a device of the character described, a separable

fastener, one element of which has a flattened portion provided with a series of notches, the other element carrying



a loop bent at substantially right angles, and a link slidably mounted upon said second element.

1,422,483. PLASTIC COMPOSITION. EARLE E. SCHUMACHER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1920. Serial No. 427,395. 1 Claim. (Cl. 106—34.)

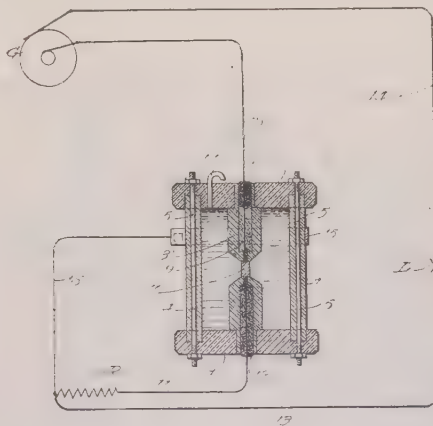
A plastic composition of approximately the following composition:

Glycerin—4 parts.

Plaster of Paris—10 parts.

Water—1½ parts.

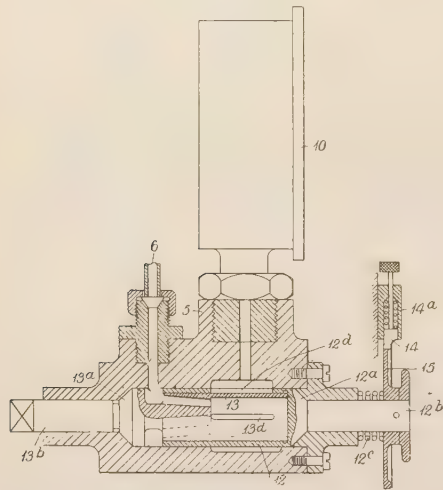
1,422,484. MEANS FOR CONTROLLING AND MEASURING A CURRENT FLOWING IN AN ALTERNATING-CURRENT CIRCUIT. EDMUND O. SCHWEITZER, Chicago, Ill. Filed Feb. 13, 1919. Serial No. 276,766. 10 Claims. (Cl. 171—266.)



1. The combination with an alternating current, of a measured electrode connected in series therewith, electrolyte in which said electrode is immersed, a container for said electrolyte comprising a cylindrical carbon electrode and means for shunting a part of the current flowing in said circuit through said measured electrode, electrolyte, and carbon electrode at a rate insufficient to cause the formation of gas at said electrodes.

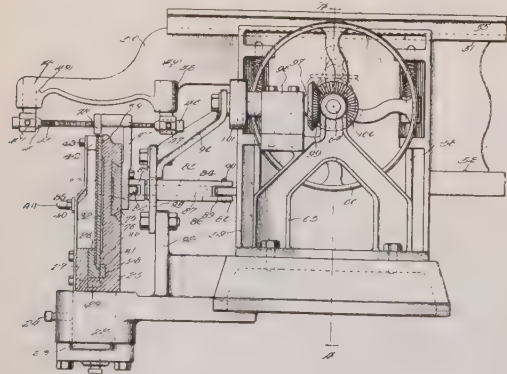
8. The combination with an alternating current circuit, of a measured electrode connected in series with said circuit and means for disintegrating said electrode at a rate proportional to the flow of current in said circuit comprising a single cell of which said measured electrode forms an electrode.

1,422,485. POWER INDICATOR FOR INTERNAL-COMBUSTION ENGINES. HARRY SHEPHARD, Coventry, England. Filed Oct. 12, 1920. Serial No. 416,546. 7 Claims. (Cl. 73—185.)



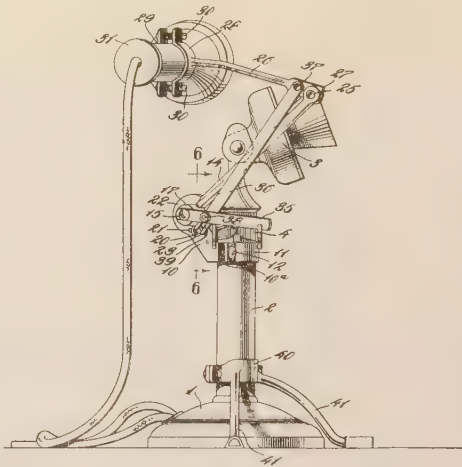
1. Power indicator for internal combustion engines comprising a pressure gauge, a fitting adapted for open communication with the interior of the engine cylinder a U-tube containing a semi-viscous liquid and having the two limbs thereof connected up respectively with the gauge and fitting, and means incorporated with said U-tube whereby pressure communication between the gauge and the engine cylinder through the U-tube may be momentarily established at any desired point in the stroke of the engine piston.

1,422,486. SAW-FILING MACHINE. LUDLOW S. SHERWOOD, Chicago, Ill. Filed July 6, 1920. Serial No. 394,137. 20 Claims. (Cl. 76—35.)



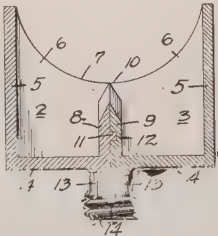
1. In a saw-sharpening machine, the combination of a device for supporting a saw to be sharpened, a sharpening device extending at an angle to the saw, means for producing relative movement between said devices in a path crosswise of the plane in which the saw extends to perform the sharpening operation, said first-named device being adjustable to vary the angle at which the saw extends relative to said sharpening device, and means operating, when actuated, to feed the saw along said first-named device, said last-named means being operatively connected with said first-named device and movable therewith in the adjustment of the latter.

1,422,487. TELEPHONE ATTACHMENT. THOMAS W. SMALL, Cleveland, Ohio. Filed May 19, 1919. Serial No. 298,027. 3 Claims. (Cl. 179—149.)



1. In a telephone attachment of the character set forth, the combination of a bracket secured to the telephone, a receiver supporting arm pivoted to the bracket, and adapted to be swung in a vertical plane from a position forward of the telephone to a position rearwardly thereof, a finger extending across the receiver hook and pivotally supported to the rear thereof, and a link directly connecting parts of the receiver supporting arm and the aforesaid finger adjacent their pivots.

1,422,488. DENTAL IMPRESSION TRAY. ERNEST ROBERT SMITH, San Francisco, Calif. Filed Nov. 3, 1921. Serial No. 512,578. 8 Claims. (Cl. 32—6.)

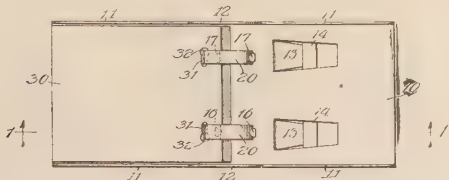


1. A dental device consisting of a divided, impression-taking tray, a split post perpendicular to and on the bottom of the tray and means for clamping the tray sections together and being detachably carried by the tray while it is applied, and consisting of a nut mounted on said post and jamming against the tray bottom.

1,422,489. MEMORANDUM-PAD STAND AND PAD SHEETS. GEORGE W. SMITH, Chicago, Ill. Filed Sept. 13, 1920. Serial No. 409,972. 8 Claims. (Cl. 129—1.)

1. In a memorandum pad stand, the combination of a base, a substantially U-shaped spring member for holding pad leaves, the spring member being formed of strip material and the legs thereof being adapted to spring apart from their normal operative relative positions, the free ends of the spring member being formed to rest firmly upon the base to provide a stable support, each end portion of the spring member having a locking aper-

ture, and a pair of spaced-apart locking projections carried by the base, the projections being adapted to enter said apertures respectively when the spring legs are forced toward each other slightly beyond their normal operative relative positions.



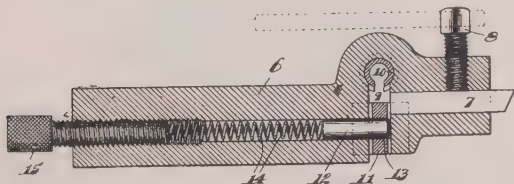
4. A memorandum pad sheet having a pair of spaced-apart holes each adapted to receive loosely a sheet-holding member in strip form having a width substantially the length of the hole in the sheet, said holes being relatively long and narrow throughout a considerable portion of their extent with their longitudinal axes in line with each other, the long and narrow portion of each hole terminating in an enlarged portion at one end only thereof.

1,422,490. VETERINARY SURGICAL INSTRUMENT. OTTO STADER, Oconomowoc, Wis. Filed Mar. 26, 1921. Serial No. 455,742. 4 Claims. (Cl. 128—234.)



1. An instrument of the character described comprising a sight tube, means carried by said tube and communicating therewith adjacent one of its ends to receive animal semen, and additional means carried by the tube for maintaining the semen substantially at its original temperature.

1,422,491. TOOL HOLDER. GUSTAV H. STAHL, Menomone, Wis., assignor to Progress Manufacturing Company, a Copartnership consisting of Gustav H. Stahl and Richard Goerner, Erie, Pa. Filed Oct. 24, 1918, Serial No. 259,580. Renewed Nov. 12, 1921. Serial No. 514,827. 7 Claims. (Cl. 29—96.)

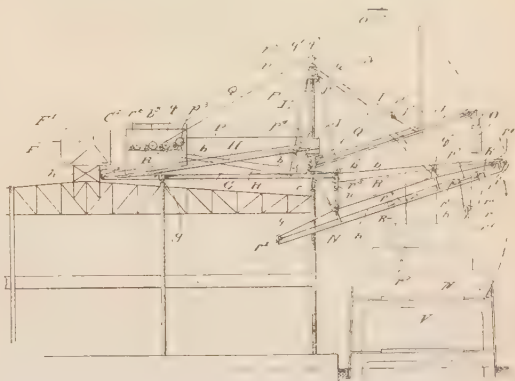


1. A construction of the class described comprising a holder bar; a tool socket at one end of said bar, there being a notch in said bar to give resiliency thereto; and a spring-held plunger in said bar spanning said notch substantially as described.

1,422,492. CONVEYER. FRANCIS LEE STUART, New York, N. Y. Filed June 18, 1920. Serial No. 389,878. 13 Claims. (Cl. 198—88.)

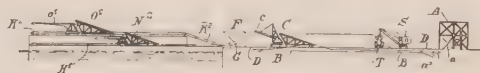
1. The combination with a pier shed having a roof, of a supply conveyer mounted on the roof of the shed, a

transfer conveyer receiving material from the supply conveyer, a carriage movable along the roof and on which



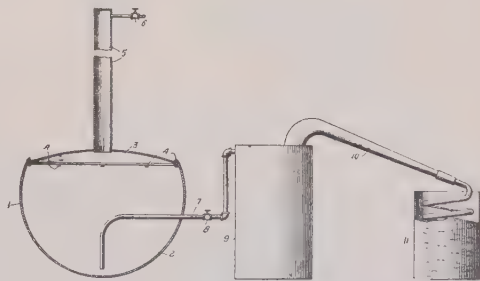
said transfer conveyer is supported, and means associated with said transfer conveyer for delivering material to a vessel adjacent the shed.

1,422,493. SYSTEM OF CONVEYING AND DELIVERING MATERIAL TO CARRIERS. FRANCIS LEE STUART, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,606. 8 Claims. (Cl. 214—14.)



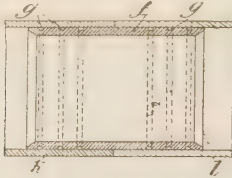
8. A system for handling material, comprising a source of material supply, a plurality of conveyers arranged in a group, a series of loading machines associated with said conveyers and movable from place to place while in operative relation with said conveyers and without interference with each other or with other machines, and means for delivering material on each side of the group from one or more of the inner machines of the group.

1,422,494. METHOD OF MANUFACTURING DIPHENYLAMINE. ARTHUR P. TANBERG, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware. Filed May 31, 1917. Serial No. 172,054. 19 Claims. (Cl. 260—128.)



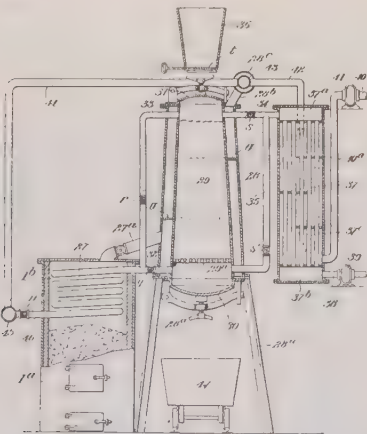
1. The process which comprises condensing aniline to diphenylamine by the presence of a substance containing chlorine, the proportion of chlorine-containing substance being such as to enable it to function only as a catalyzer.

1,422,495. REPAIRING PATCH FOR PNEUMATIC TIRES. ALFRED THIELE, Magdeburg, Germany, assignor to Firm of Emmy-Thiele, Berlin, Germany. Filed June 10, 1919. Serial No. 303,216. 1 Claim. (Cl. 152-24.) (Granted under the provisions of the act of Mar. 3, 1921. 41 Stat. L. 1313.)



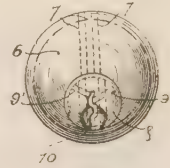
A patch for rubber tires, tubes and the like, having a series of juxtaposed, wide and deep grooves provided in the face thereof which is to be applied to the tire and having the central portion of its said face left plane, said grooves being in the form of concentric, closed curves which are spaced from one another and which have sharp or abrupt edges throughout their entire extent; whereby when the grooved face of the patch is coated with an adhesive substance and is applied to the tire, the application of pressure upon the patch along the grooved portion thereof will expel the air and most of the adhesive from said grooves and will force the air out from between the patch and the tire so as to create vacuua in said grooves, and the adhesive substance will prevent the re-entry of air into said grooves, so that the patch will be held uniformly and evenly against the tire by the pressure of the atmospheric air during the setting of the adhesive substance.

1,422,496. PROCESS FOR DISTILLING CARBONACEOUS MATERIAL. WALTER THOMAS, Nanaimo, British Columbia, Canada. Filed June 8, 1916. Serial No. 102,552. 2 Claims. (Cl. 202-8.)



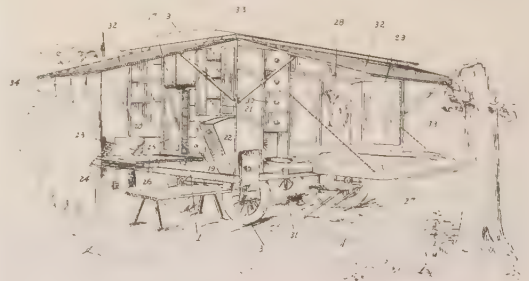
1. The process of distilling fuel material containing sulphur in a vertical retort and obtaining pure liquid distillate products and desulphurized smokeless fuel, which consists in heating purified gas to the required temperature and forcing it alternately at different points one above the other, into a body of material for more quickly and uniformly effecting distillation of the whole body by direct internal heat, and carrying off the resulting volatile products by such gas and condensing the products to obtain pure distillate liquids.

1,422,497. PIN-TUMBLER LOCK. FRANK E. THOMPSON, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,894. 4 Claims. (Cl. 70-47.)



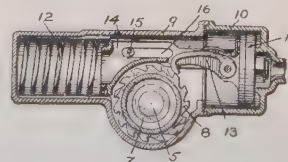
1. As a new article of manufacture, a tumbler lock the plug of which is provided with a plurality of hardened steel pins arranged at an angle to the axis of the plug at opposite sides of the key slot and partly within the plane of the tumblers.

1,422,498. CAMPING TRAILER. WILLIAM J. VINT, Stockton, Calif. Filed Oct. 25, 1920. Serial No. 419,195. 4 Claims. (Cl. 296-23.)



1. In a camping trailer, an interior compartment having an entranceway at one end of the trailer, wash tubs normally positioned within the compartment, and means whereby the tubs may be moved outwardly through the entranceway at will while still being supported from the compartment.

1,422,499. AUTOMATIC SLACK ADJUSTER. HENRY A. WAHLERT, St. Louis, and JOHN E. REDFORD, Kinloch Park, Mo., assignors to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed June 30, 1920. Serial No. 392,949. 3 Claims. (Cl. 188-203.)

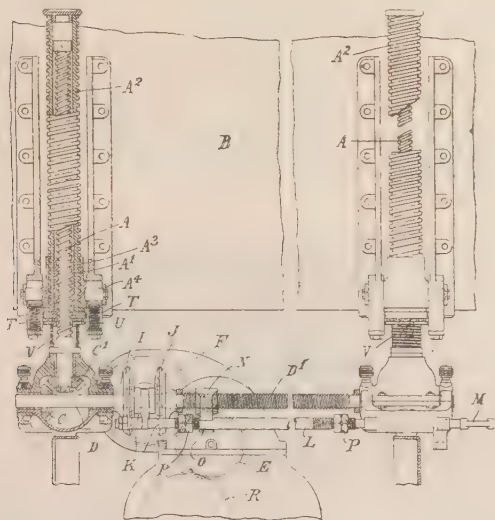


3. In a brake slack adjuster, the combination with a casing, a ratchet wheel mounted in said casing, and a pawl for operating the ratchet wheel, of a piston subject on one side to fluid under pressure and operatively connected to said pawl, a spring for opposing the fluid pressure on said piston, a member carried by said piston and provided with an elongated guide slot, and a guide pin secured to said casing and engaging in said slot.

1,422,500. MOTOR TIP WAGON. EDWIN ROBERT WALKER, Wigan, England, assignor to Walker Brothers (Wigan) Limited, Wigan, England. Filed Nov. 5, 1919. Serial No. 335,802. 2 Claims. (Cl. 298-21.)

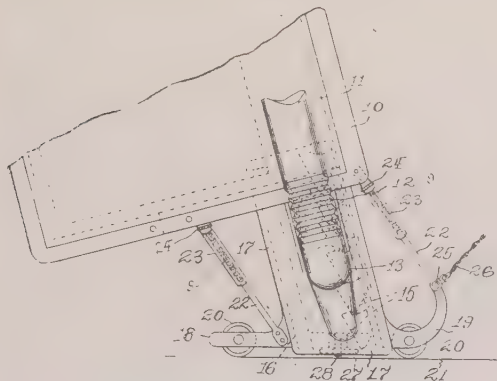
1. In a motor vehicle having a body adapted to be tipped by the power of the engine, a tipping arrangement

comprising a screw mechanism for raising and lowering the vehicle body, a trunnion connection between the vehicle body and the screw mechanism, a shaft disposed across the end of said body for driving the screw mechanism, a pair of toothed gears loose on said shaft adapted to be driven from the engine, a clutch for locking one or



the other of said gears in driving connection with the cross shaft, an axially slidable clutch rod mounted parallel with the cross shaft, and a nut capable of travelling on the cross shaft to move the clutch rod axially when the vehicle body has reached its appointed limits of travel so as to automatically throw the clutch into neutral position and stop the drive of the cross shaft.

1,422,501. STREET SWEEPER. EDWARD K. WARD and PIER C. WARD, St. Paul, Minn. Filed Oct. 6, 1919. Serial No. 328,856. 2 Claims. (Cl. 15—11.)

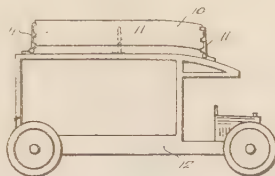


1. In a vacuum street sweeper a rigid frame, a second frame movable laterally beneath said rigid frame, articulated and telescopic means connecting the forward and rearward ends of said movable frame with said rigid frame, a housing carried by said movable frame and having an opening adjacent to the surface of the street, a flexible conduit connecting said housing with the suction pipe of said sweeper, frictional cleaning means within the opening in said housing and means for supporting and for guiding said movable frame horizontally.

1,422,502. SIGN AND ITS SUPPORTS. WILLIAM J. WARK, Salem, Ohio. Filed Sept. 12, 1921. Serial No. 500,086. 2 Claims. (Cl. 40—125.)

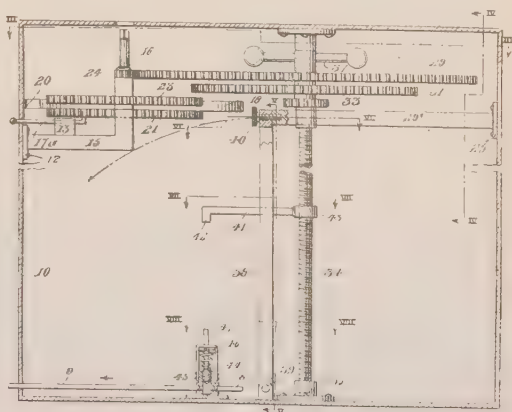
1. A sign consisting of a panel and supporting brackets for the panel, each of said brackets having a base piece

including a flat apertured portion and a vertically disposed wing, and an upright arm having laterally spaced



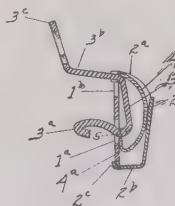
lugs in pairs in its length and having spaced ears at its lower end straddling and pivoted to the said wing of the base.

1,422,503. AEROPLANE CONTROL. PIOTR WARMINSKI, Baltimore, Md. Filed Dec. 22, 1921. Serial No. 524,054. 2 Claims. (Cl. 244—1.)



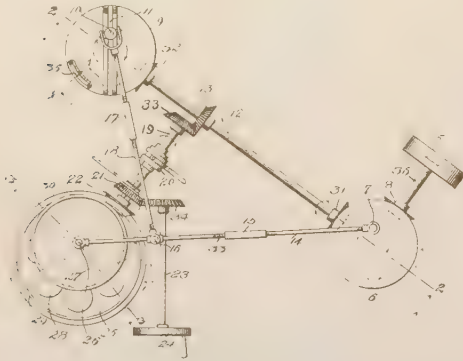
1. Means for controlling the flow of fluid comprising a fluid pipe, a controlling valve therefor, motor operated means to stop the flow of fluid including a gearing train, a screw shaft rotated thereby, a valve actuating arm threaded on said shaft rotated thereby, a valve actuating arm threaded on said shaft adapted to be moved into engagement with the valve, and a slotted guide for the valve actuating arm to prevent rotary movement of the arm relative to the screw shaft, said slotted guide being movable relative to said arm to permit the arm to be moved relative to the screw shaft whereby the same may be initially set in the desired position on the screw shaft.

1,422,504. LATCH. THOMAS A. WATTS, Springfield, Ohio, assignor to The Springfield Metallic Casket Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 10, 1921. Serial No. 436,265. 4 Claims. (Cl. 292—228.)



said latch and also having a bearing point on one wall of the housing and also on said plate to provide for supporting the same.

- 1,422,505. GRINDING AND LAPPING MACHINE. FLOYD CALVIN WEAVER, Washington, D. C. Filed Nov. 11, 1920. Serial No. 423,371. 10 Claims. (Cl. 51—132.)

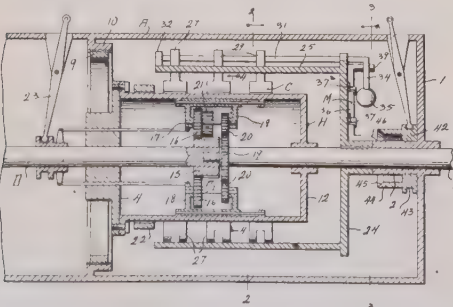


1. In a machine of the class described, the combination of a pair of plates, means for rotating said plates at the same rate of speed, a work-supporting plate contiguous to said pair of plates, means for driving said work-supporting plate at the same speed the first-mentioned plates are driven, a lapping plate contiguous to said work-supporting plate, means connecting one of the first-mentioned plates to said lapping plate for moving the lapping plate over the work-supporting plate, and means adjustably connecting said just-mentioned connecting means to the other plate of the pair whereby movement of the lapping plate with reference to the work-supporting plate will be controlled through the medium of said first mentioned plate.

- 1,422,506. PROCESS OF MAKING DIPHENYLGUANIDINE. MORRIS L. WEISS, Brooklyn, N. Y., assignor to Dovan Chemical Corporation, Wilmington, Del., a Corporation of Delaware. Filed July 2, 1921. Serial No. 482,143. 10 Claims. (Cl. 260—125.)

10. In a process of making diphenylguanidine containing as a reaction impurity carbodiphenylimide, the steps which comprise dissolving the same in hot toluol, cooling, and then washing the crystals thus formed with pure toluol, and then drying.

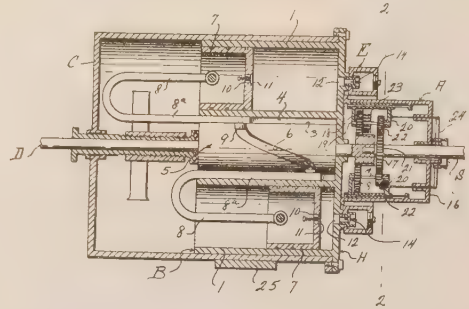
- 1,422,507. POWER-TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Nov. 20, 1920, Serial No. 425,463. Renewed Jan. 7, 1922. Serial No. 527,762. 9 Claims. (Cl. 74—34.)



1. In a transmission mechanism, a driving shaft, a driven shaft, means operatively connecting said shafts including a member constituting a drum, said member

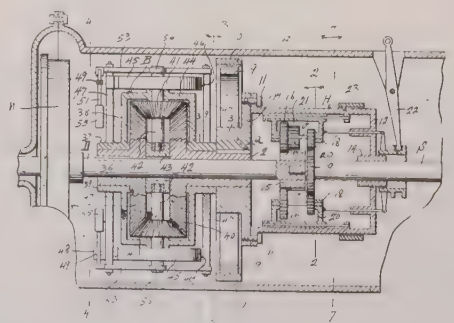
being loosely mounted on both of said shafts, a gear assembly carried by the member and coacting with said shafts, a clutching unit carried by one of the shafts and coacting with the drum, means operable under the influence of centrifugal force for adjusting the clutching element into frictional engagement with the drum, and means directly engaging said last named means for rendering the same inoperative.

- 1,422,508. REVERSING MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Original application filed Feb. 24, 1920, Serial No. 360,955. Divided and this application filed Aug. 9, 1920, Serial No. 402,080. Renewed Jan. 7, 1922. Serial No. 527,763. 3 Claims. (Cl. 74—34.)



1. A mechanism of the class described comprising, in combination, a driving shaft, a driven shaft, means operatively connecting said shafts, said means including a casing mounted upon the driving shafts, said casing and the driving shaft being capable of relative independent rotation, a housing carried by the casing into which the driving shaft extends, a gear fixed to the portion of the driving shaft within the housing, the driven shaft also extending within the housing, a gear fixed to said portion of the driven shaft, a carriage mounted for sliding movement within the housing in a direction longitudinally of the driving and driven shafts, unitary gears carried by the carriage, one of said gears being constantly in mesh with the gear of the driving shaft, a second gear of said unitary gears meshing with the gear of the driven shaft when the carriage is in one position, and a gear carried by the carriage and constantly in mesh with the first named of the unitary gears, said last named gear meshing with the gear of the driven shaft when the carriage is in a second position and whereby the direction of rotation of the driven shaft is reversed.

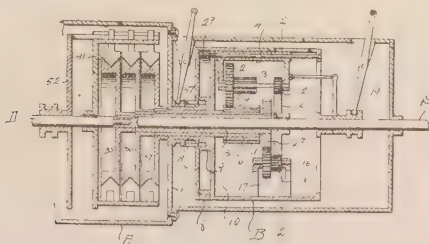
- 1,422,509. POWER-TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Aug. 7, 1920, Serial No. 401,892. Renewed Jan. 7, 1922. Serial No. 527,764. 7 Claims. (Cl. 74—34.)



1. In a transmission mechanism, a driving shaft, a driven shaft, and means operatively connecting said shafts

including a member loosely mounted on both of the shafts, a gear assembly carried by the member and coacting with the shafts, a gear carried by said member and concentric to the driving shaft, a gear fixed to the driving shaft, an element having rotary movement around the driven shaft independently thereof, an idle gear carried by said element and in driven connection with both of the last named gears, and clutching means carried by said element and coacting with the idle gear to retard the rotation of said idle gear about its axis.

1,422,510. TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed Dec. 31, 1920, Serial No. 434,256. Renewed Jan. 7, 1922. Serial No. 527,765. 2 Claims. (Cl. 74—34.)



1. A transmission mechanism including a drive shaft, a driven shaft, a gear fixed on the driven shaft, a sleeve surrounding the driven shaft and provided with a gear, a gear assembly operatively connecting the gear of the sleeve and the gear of the driven shaft, a second sleeve surrounding the first sleeve and provided with a gear, a gear assembly operatively connecting the gear of the second sleeve and the gear of the driven shaft, coacting clutch mechanisms carried by the drive shaft and the driven shaft and each of the sleeves, a member supported for rotation around the driven shaft and carrying the gear assemblies, and means for locking said member against rotation, one of said gear assemblies being supported for movement in a direction lengthwise of the driven shaft and including reversely rotating gears, one of said gears meshing with the gear of the driven shaft when said assembly is in one position and the second of said gears meshing with the gear of the driven shaft when said assembly is in a second position.

1,422,511. SPRING HEEL. EDWARD L. WHITE, Brooklyn, N. Y. Filed July 13, 1921. Serial No. 484,358. 4 Claims. (Cl. 36—37.)

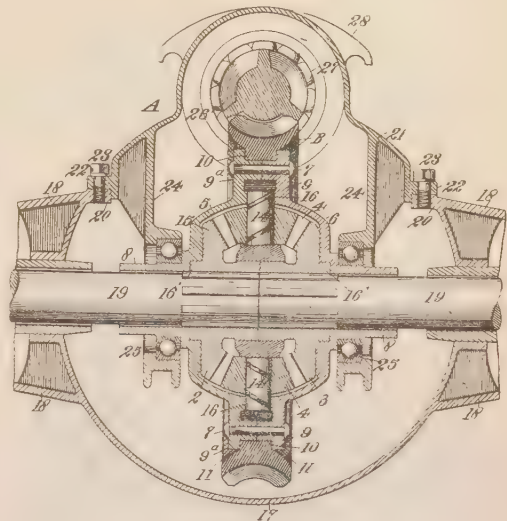


1. A spring heel including a heel plate, a coil spring secured to the bottom of the heel plate, and means for adjusting the tension of the spring comprising a clip pivoted to the bottom of the heel plate, the free end of the clip being movable along the spring.

1,422,512. BRONZE WORM-GEAR MOUNTING. JOHN W. WHITE, Jr., Oakland, Calif. Filed May 28, 1919. Serial No. 300,299. 6 Claims. (Cl. 74—99.)

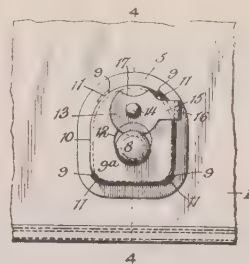
1. The combination with a two-piece differential housing, of an annular flange carried by each section of said housing, and an annular seat member formed on each flange and of a diameter less than the same, of a ring

gear adapted to be received by said seat and embraced by the said flanges, a series of spline members formed on the circumferential edge of one of the flange members,



and recesses formed in the side of the ring gear similar in number and location to the spline members for the reception thereof to secure the ring gear from circumferential movement about the housing.

1,422,513. VEHICLE CURTAIN FASTENER. CLARENCE S. APPLAS, Sacramento, Calif. Filed Mar. 10, 1921. Serial No. 451,415. 1 Claim. (Cl. 24—211.)

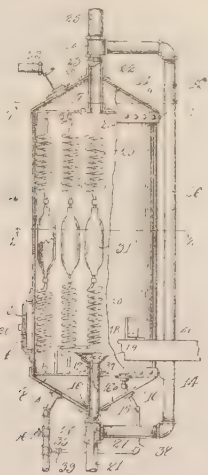


In combination with a headed post or stud secured to a fixed part, a flanged plate secured to a movable part and provided with an opening for the passage of said post, a disk pivoted on the flanged plate and provided with an operating arm for rotating the disk, said disk having its peripheral edge normally engaging the post to prevent separation of the flanged plate from the post, and having a cut-out portion adapted to align with the post to permit separation of the parts, the free end of the operating arm engaging the flanged portion of the plate for either locking the disk in engaging or releasing position with the post.

1,422,514. APPARATUS FOR SEPARATING THE LIQUID AND SOLID COMPONENTS OF MIXTURES OF LIQUIDS AND CRUSHED OR GROUND ORE PRODUCTS. ALEXANDER JOHN ARBUCKLE, Johannesburg, Transvaal, South Africa. Filed Dec. 30, 1921. Serial No. 525,995. 17 Claims. (Cl. 210—55.)

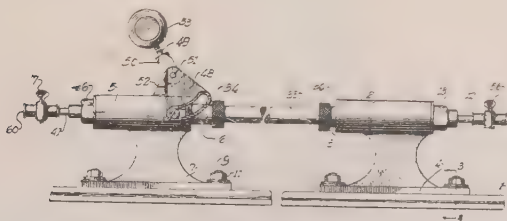
1. Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground ore

dricl heating chambers inside said steam chamber and connected with and interposed between said coils, a means for supplying steam to said steam chamber, an exhaust outlet from said steam chamber, a water intake connection connected to said receiving chamber and a water outlet



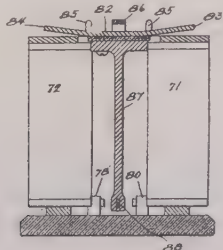
connection from said hot water holding chamber, a means for controlling the draw-off through said water outlet connection, a means for allowing the condensed steam in said steam chamber to be drawn off and a supporting means for the said steam chamber.

1,422,522. PIPE AND TUBE TESTER. JOHN CHARLES BAREISS, Philadelphia, Pa. Filed Feb. 17, 1920. Serial No. 359,401. 9 Claims. (Cl. 73—51.)



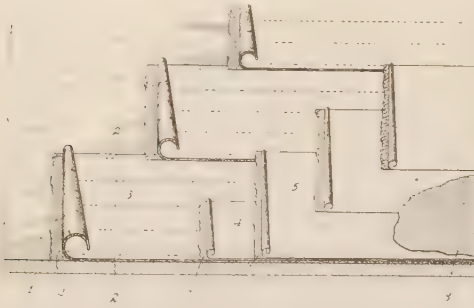
1. In a tube testing machine, means to clamp a tube in testing position and permit its rotation on its own axis when in such position, and means operable to admit fluid under pressure to the tube by the clamping action.

1,422,523. SIGNALING MECHANISM. CLARENCE E. BEACH, Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company, a Corporation of New York. Original application filed Oct. 12, 1914, Serial No. 866,322. Divided and this application filed June 18, 1917. Serial No. 175,309. 8 Claims. (Cl. 175—337.)



a lug and an opening therefor respectively provided on said members, one of said lugs being shiftable to permit insertion or removal of the ring.

1,422,526. ROOFING. JACOB M. BERDAN, Paterson, N. J., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed Aug. 4, 1920. Serial No. 401,117. 3 Claims. (Cl. 108—6.)



1. A roofing structure having the following parts in combination: a foundation and supporting member, an intermediate member comprising a resilient layer of loosely assembled particles resting directly upon said foundation, and a superposed layer of waterproof fabric of relatively low tensile strength resting directly on said intermediate member, whereby an exposed, elastically supported upper surface is secured and any expansion or contraction of the foundation member is compensated for in the intermediate layer and not transmitted to the superposed waterproof layer.

1,422,527. COLOR PRINT VIEWABLE BY LIGHTS OF DIFFERENT COLORS AND PROCESS OF MAKING THE SAME. CHRISTIAN BERGER, New York, N. Y., assignor of one-half to Frederick L. Sawyer, New York, N. Y. Filed Jan. 20, 1920. Serial No. 352,735. 6 Claims. (Cl. 88—1.)

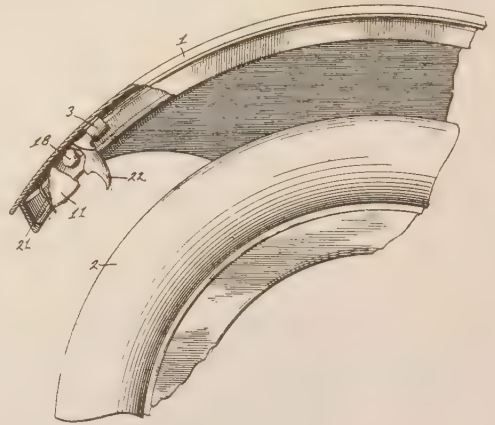


5. A print viewable by lights of opposite colors such as red and green, for example by viewing it through color filters of said colors, said print consisting of a support bearing superposed prints of the two opposite colors, such that when viewed by light of either color the appearance of the print of that color is substantially diminished, the surrounding field, but not the support beneath the printed colors, being tinted of a color which completely neutralizes any contrast with either diminished print, whereby viewing by light of either color discloses the print of the opposite color without trace of the print of the first color.

1,422,528. FENDER LAMP. HENRY J. BERRINGER, San Francisco, Calif. Filed June 6, 1921. Serial No. 475,469. 3 Claims. (Cl. 240—7.)

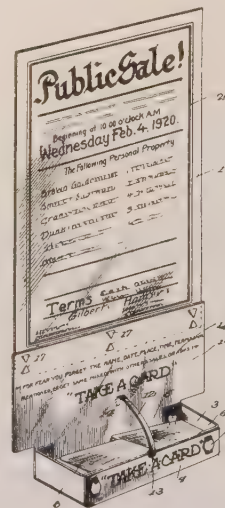
1. The combination with a fender arranged to be mounted adjacent the wheel of a vehicle and provided with a lamp engaging socket secured upon the under side thereof, of a reflector removably engaged by the socket; an electric lamp mounted within the reflector; means carried by the

reflector arranged to form electrical connection between the lamp and the socket when the reflector is engaged by



said socket; and a spring clip secured upon the fender to engage the reflector and retain the same in engagement with said socket.

1,422,529. ADVERTISING DEVICE. RAYMOND A. BINGAMAN, Batavia, Ohio. Filed June 5, 1920. Serial No. 386,763. 2 Claims. (Cl. 40—7.)

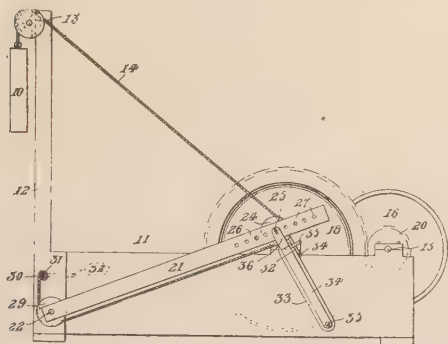


2. A permanently open box for displaying material, a back portion integral with the box but of greater height and width than the box, a brace for said back portion securely fastened thereto and to the forward edge of the box, a poster detachably secured to the upper edge of said back portion and being of the same width as the latter, said back portion being provided with directions for disposing of the contents of the box.

1,422,530. CARBONIZING METHOD. WALTER BONSOR, South Bend, Ind., assignor of one-half to Walter C. Steenburg, South Bend, Ind. Filed Mar. 6, 1922. Serial No. 541,560. 4 Claims. (Cl. 148—30.)

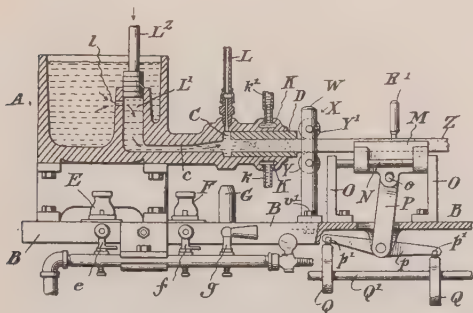
1. The method of carbonizing ferrous metal which consists in heating the ferrous metal in contact with humus soil containing less than 15% of moisture and characterized in that its dry solids contain more than 30% of carbon and more than 3% of nitrogen, with lime salts to the extent of not less than 4.4% CaO.

1,422,531. AUTOMATIC TOOL-DROPPING MACHINE. CARROL R. BOYCE, Wautoma, Wis. Filed May 18, 1921. Serial No. 470,724. 4 Claims. (Cl. 255—13.)



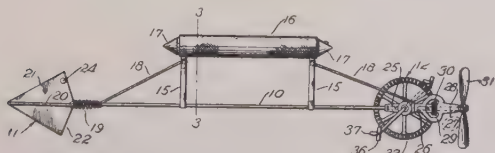
1. A tool-elevating machine comprising an inclined beam mounted for oscillations, a cable adjustably attached to the beam, a tool secured to the free end of the cable, a power shaft, a crank upon said shaft, pitman connections between said shaft and beam, a propelling gear upon said shaft, clutch members between said shaft and gear adapted for automatic release when the tool is at its most elevated position, manual releasing means for the clutch, adjustable winding means for the cable and an accelerating means for the crank carried by the crank adjacent the power shaft.

1,422,532. MACHINE FOR MAKING ORNAMENTAL RULES AND BORDERS. MARTIN M. BREIT, San Antonio, Tex., assignor of one-half to Light Publishing Company, San Antonio, Tex., a Corporation of Texas. Filed May 31, 1921. Serial No. 473,992. 3 Claims. (Cl. 207—1.)



1. A machine for making ornamental rules and borders from molten metal, comprising a table, a mold thereon for giving strip form to the metal, devices supported on the table and engaging the strip for advancing it in a straight horizontal path after leaving the mold, and means supported on the table between the mold and the strip-advancing devices for forming a design on the edge of the strip.

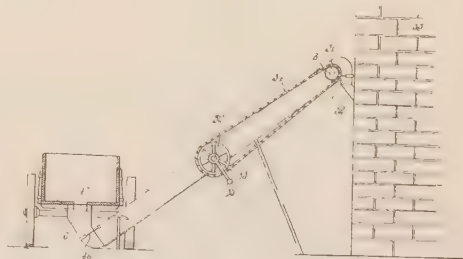
1,422,533. WATER CYCLE. GRACE C. BROWN, San Francisco, Calif. Filed July 12, 1920, Serial No. 395,575. Renewed Dec. 19, 1921. Serial No. 523,591. 3 Claims. (Cl. 9—18.)



1. A water cycle comprising a pair of floats disposed substantially on the same plane and converging toward the

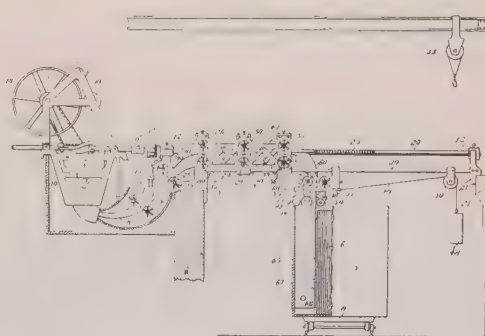
forward end of the structure; a sling supported between said floats; a rigid shaft fixed to the floats and disposed therebeneath and centrally thereof; veined steering member resiliently and yieldably mounted at the forward end of said shaft, and a pedal operated propelling mechanism disposed at the opposite end of said shaft.

1,422,534. GRAIN ELEVATOR. ORLANDO HOMER BROWN, Victoria, British Columbia, Canada. Filed Feb. 24, 1921. Serial No. 447,522. 7 Claims. (Cl. 198—48.)



1. In an apparatus for elevating grain from wagons, the combination with a casing and rotatably mounted shafts arranged therein, of gears mounted on said shafts, a chain actuated by said gears, means for guiding and supporting the upper flight of said chain, a plurality of bucket sections pivoted to each other and secured to alternate links of said chains and operable therewith, means for connecting said casing to the wagon and means for actuating said chain.

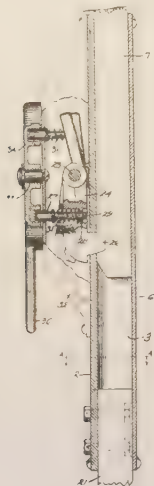
1,422,535. FEEDING MECHANISM FOR TINNING MACHINES. DARIO BUCCICONE, Canonsburg, Pa. Filed May 16, 1921. Serial No. 470,073. 14 Claims. (Cl. 271—11.)



1. The combination with an overhead means for feeding plates to a tinning pot, means for elevating plates one by one from a substantially vertical stack to said overhead feeding means and including a movable friction member engaging the outermost plate of the pile and movable transversely of the latter for maintaining frictional engagement with said outermost plate, said overhead feeding means being extensible in a direction transversely of the pile of plates and engaging the plate elevating means so as to move it transversely of the pile of plates when said overhead feeding means is extended, means to normally extend said overhead feeding means, driving means for said overhead feeding means, and detachable operating connections between the overhead feeding means and the plate elevated means, said feeding means and elevating

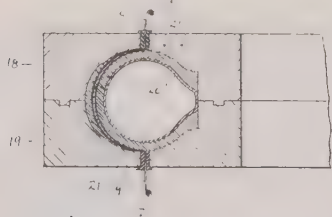
means being devoid of interconnections with the exception of said operating connections, and a portable carrier for the pile of plates upon which said elevating means is mounted.

1,422,536. SELECTIVE COUPLING. LESTER H. BULLARD, San Leandro, Calif. Filed July 12, 1921. Serial No. 484,081. 11 Claims. (Cl. 103-62.)



1. The combination with driving and driven shafts of a selective coupling comprising a head secured to one of said shafts and slidably engaged on the other shafts, a latch on said head associated with each of said other shafts, and means for engaging a selected latch with its associated shaft.

1,422,537. PROCESS OF MAKING TIRES. WILBUR B. BURKE, Cleveland, Ohio. Filed Aug. 20, 1919. Serial No. 318,722. 4 Claims. (Cl. 18-56.)

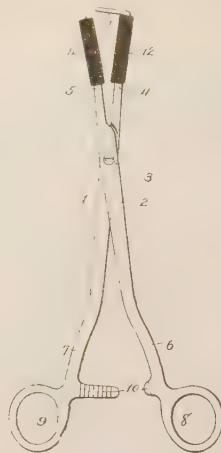


1. In a method of making tire casings, the steps which consist in assembling the composite layers of the casing in proper order, interposing a vulcanizing element adapted to be electrically heated, and then simultaneously applying heat exteriorly to such casing and passing a heating electric current through said element.

1,422,538. TOOL. WILLIAM H. CAMERON, Pittsburgh, Pa., assignor to Radium Chemical Company, Pittsburgh, Pa. Filed Jan. 13, 1921. Serial No. 436,988. 2 Claims. (Cl. 128-321.)

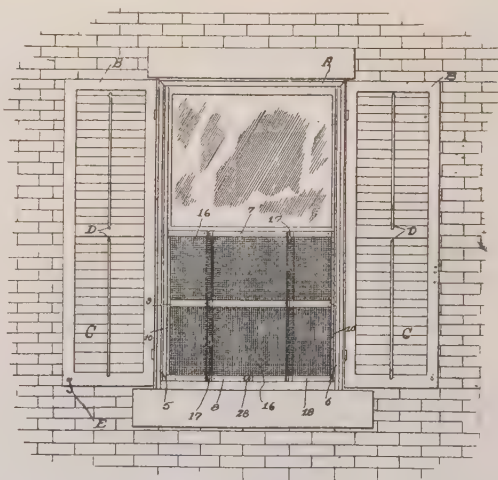
1. A tool for handling surgical tubes, comprising relatively movable padded jaws, one of said jaws provided

with a finger disposed in the plane of said jaw and at substantially right angles thereto, said finger adapted to



project beyond the free end of the other jaw, and means whereby said jaws may be relatively moved.

1,422,539. WINDOW SCREEN. ISAAC W. CHERRY, Pensacola, Fla. Filed Sept. 7, 1920. Serial No. 408,654. 1 Claim. (Cl. 156-14.)



The combination with a window frame, guides carried by the stiles of the window frame, of a window screen comprising a frame having side flanges, the longitudinal intermediate portion of said flanges being substantially crimped to provide a tongue, said tongue being slidable in the guides, and means carried by the free edges of said flanges for holding the screen in various positions.

1,422,540. FIBER-BOARD BOX. JOHN L. CHRISTENSEN, Chicago, Ill. Substitute for application Serial No. 445,348, filed Feb. 16, 1921. This application filed May 5, 1922. Serial No. 558,571. 9 Claims. (Cl. 229-41.)

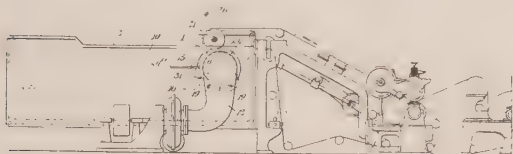
1. A box having upper and lower sections each comprising a main portion with end and side walls swingable relative to the main portion, one of the side walls being common to both sections and forming a hinge therebetween, portions connecting the adjacent end walls of the two sections having notches in their free edges and scored to permit the two sections to be swung into interfitting relation, and means for securing the outer side wall of

each section to the adjacent end walls, the outer side wall of one of the sections having a pair of spaced scores therein along which it may bend when drawn outwardly at its center so as to cause the adjacent end walls to swing inwardly.



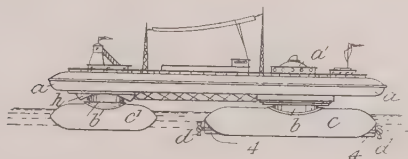
8. A box comprising a main wall with end and side walls swingable relative thereto, rectangular corner portions integrally connecting the end and outer side walls together, one of each pair of walls thus connected being scored diagonally so as to permit the corner portion therebetween to be swung bodily into perpendicular position against the other wall and secured thereto, and one of the adjoining walls being scored diagonally to permit it to be swung outwardly from the main wall while the adjoining wall is swung inwardly flat upon the main portion.

1,422,541. CYLINDER PAPER-MAKING MACHINE. WILLIS S. CRANDELL, Elsmere, N. Y., assignor to A. P. W. Paper Co., Albany, N. Y., a Corporation of New York. Filed June 16, 1919. Serial No. 304,155. 14 Claims. (Cl. 92—43.)



1. In a cylinder paper machine, the combination of a cylinder mould, rollers supporting the outside of the periphery, and rollers supporting the inside of the periphery.

1,422,542. MULTIPLE-HULL BOAT. FREDERICK GEORGE CREED, Croydon, England. Filed Dec. 3, 1919. Serial No. 342,226. 8 Claims. (Cl. 114—61.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

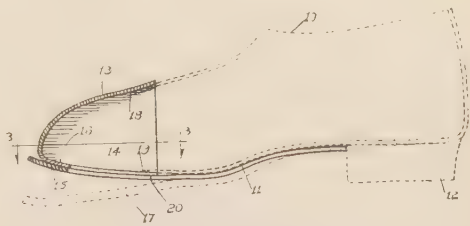


1. A ship embodying a superstructure and a plurality of float-structures each embodying a float, one of said floats being horizontally rotatable for steering purposes and having a hollow supporting member, means for rotating the float through the medium of said hollow supporting member, said rotatable float carrying trimming means consisting of a pair of vanes arranged at opposite sides of the float, a transverse shaft carrying said vanes, and means for rocking said shaft embodying a member extending up through the tubular member and rotatable with the float.

1,422,543. REPAIR TIP FOR SHOES. NICOLA D'ANDREA, Bridgeport, Conn., assignor of one-half to Michael Persichino, Bridgeport, Conn. Filed Jan. 25, 1922. Serial No. 531,801. 5 Claims. (Cl. 36—77.)

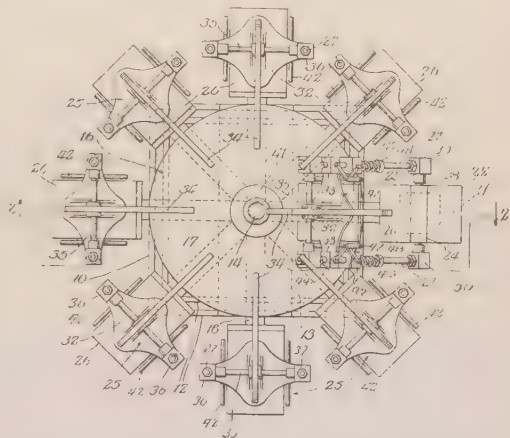
1. As an article of manufacture, a repair tip for shoes,

comprising a toe cap having an inturned lower edge, a toe cap welt secured to the under face of said lower edge



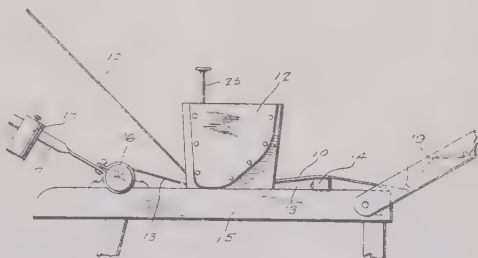
and extending outwardly beyond said toe cap, and means securing said inturned edge and welt to each other.

1,422,544. BOX MACHINE. LOREN W. DARLING, Sycamore, Ill., assignor of one-half to Albert E. Hammer-schmidt, Sycamore, Ill. Filed Jan. 27, 1922. Serial No. 532,206. 12 Claims. (Cl. 93—36.)



1. In a box machine, the combination of a base, a turntable rotatively mounted thereon, and having a plurality of lower pressure heads extending up therefrom, circumferentially about its axis of rotation, and upper pressure heads, one co-operating with each lower pressure head and fulcrumed on said turntable, said upper pressure heads having pressure blocks capable of being moved over said lower pressure heads and movable lengthwise of said head, and pressure levers for clamping said pressure blocks upon the folded flaps of a carton.

1,422,545. COATING APPARATUS. CURTIS I. DAYTON, Chicago, Ill., assignor of one-half to Ernest L. Dayton, Detroit, Mich. Filed June 1, 1920. Serial No. 385,707. 5 Claims. (Cl. 91—12.)



1. In a coating apparatus, a fountain for holding a supply of liquid coating material and having an outlet through which the material passes to the article to be

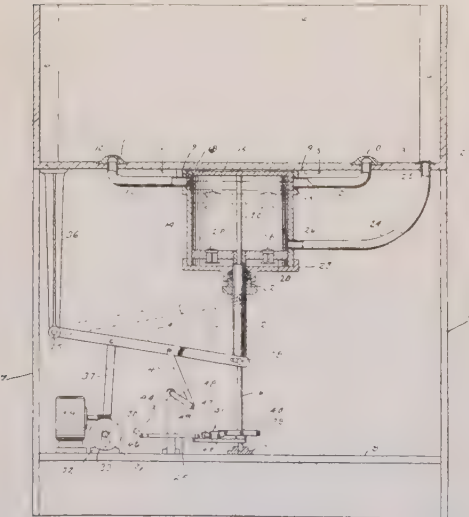
coated, and a distributor removably mounted in the fountain over the outlet thereof and having means for dividing the coating material into separate streams.

1,422,546. BUMPER. PAUL E. DEMMER, Marysville, Calif., assignor, by direct and mesne assignments, to D & W Specialty Company, Marysville, Calif., a Corporation. Filed Jan. 23, 1922. Serial No. 531,099. 3 Claims. (Cl. 293—55.)



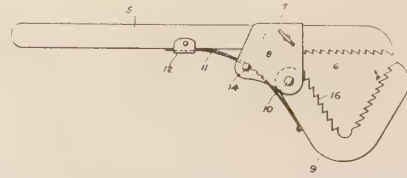
2. A bumper for vehicles including spaced spring members fixed to and projecting beyond the frames of the vehicle, the springs being arranged for deflection transversely of the vehicle, and their free ends tending to separate from each other, and a flexible structure fixed to and extending between the free ends of the springs, the latter being forced together somewhat before the flexible structure is mounted thereon whereby to hold the flexible structure normally under tension.

1,422,547. WASHING MACHINE. HERMAN C. DOMAN, Oshkosh, Wis. Filed Aug. 5, 1919. Serial No. 315,439. 6 Claims. (Cl. 68—37.)



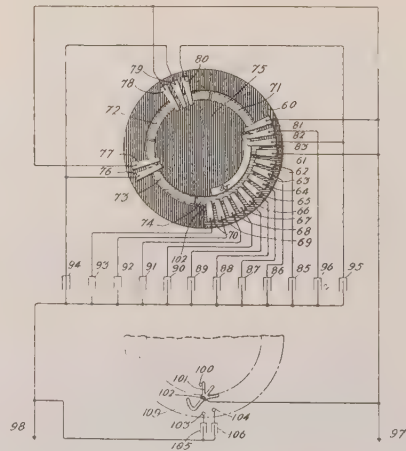
1. A washing machine comprising a container, a plurality of spray nozzles located in said container so that the water discharged therefrom will impart a whirling movement to the garments being washed, a source of washing fluid, a pump, and means for intermittently putting said pump into communication with said nozzles one at a time for the purpose described.

1,422,548. PIPE WRENCH. WENZEL DVORAK, Fernie, British Columbia, Canada. Filed Aug. 24, 1921. Serial No. 494,811. 2 Claims. (Cl. 81—106.)



1. A pipe wrench having a handle member, there being notched configurations on the inner end of the said handle member, a bracket member slidably engaged with the said handle member, a V-shaped jaw member having notched configurations on the inner edges thereof, one terminal of the said V-shaped jaw member pivotally connected to the said bracket member, a spring affixed intermediate its ends to the said bracket member, one terminal of the said spring substantially secured to the said handle member, the opposite terminal of the said spring bearing against the said body member and means securing the said slidable bracket member in any desired position.

1,422,549. MULTIPLE SWITCH. AUGUSTUS J. EAVES, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,820. 7 Claims. (Cl. 200—7.)

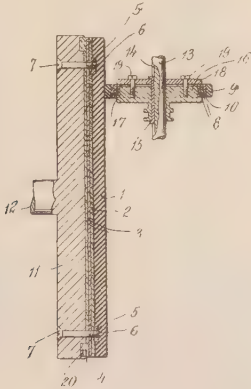


1. A multiple switch comprising a stationary member having a recessed portion therein, a plurality of contact members mounted in the recessed portion, a plurality of additional contact members mounted on the stationary member and in a different plane from said first contact members, and a movable member provided with separate means each of which in turn is adapted to consecutively engage the contact members mounted in the recessed portion until all such members are engaged, and additional means for engaging the contact members mounted in a different plane.

1,422,550. FRICTION-DRIVING DEVICE. HENRY C. EGERTON, Ridgewood, N. J. Filed Oct. 15, 1918. Serial No. 258,276. 14 Claims. (Cl. 74—26.)

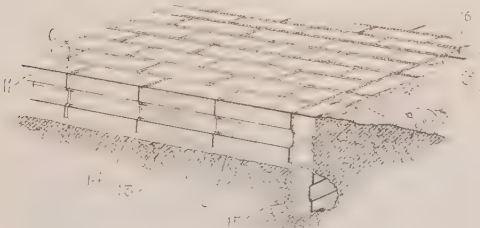
1. In friction driving devices, a drive member and a replaceable facing member therefor comprising a stiffened

body having a plurality of layers of canvas carrying and impregnated with cured phenolic condensation cementing material, a vulcanized rubber facing secured to said stiffened body and a fabric connector interposed between said body and facing and securely united thereto, project-



ing aligning portions on said body containing fibrous material and carrying phenolic condensation cementing material cemented to said body, and threaded securing devices embedded in said facing member and cooperating with said stiffened body.

1,422,551. PAVING BLOCK AND ROADWAY CONSTRUCTED THEREFROM. JOHN D. FLETCHER, Evansville, Ind. Filed Sept. 22, 1919. Serial No. 325,388. 1 Claim. (Cl. 94—11.)

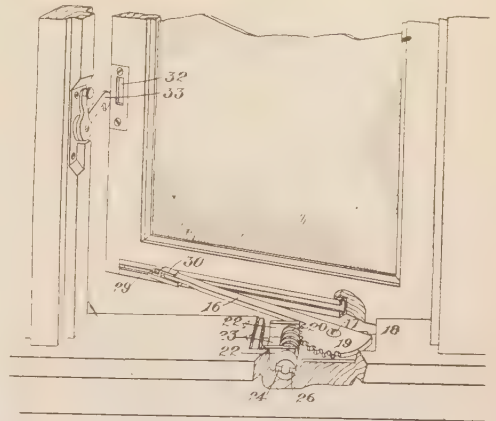


In a road-way, a plurality of blocks having furrows formed longitudinally of their side of greatest dimension, a layer of sand beneath and forming a bed for the blocks, said blocks being spaced from each other, some of said blocks being arranged in parallel courses upon opposite sides of and to form curbs for the road bed each parallel course being spaced from the blocks forming the road and consisting of two layers of blocks, one above the other and in spaced relation, the upper surfaces of the lower layer of blocks extending approximately to the level of the sand forming the road-bed and thereby preventing it being washed away or otherwise dislodged, all of said spaces being adapted to receive a cementitious material whereby every block is spaced from every other block.

1,422,552. WINDOW ADJUSTER. FREDERICK FOURNIER, San Francisco, Calif. Original application filed Feb. 25, 1920, Serial No. 361,127. Divided and this application filed Mar. 9, 1921. Serial No. 451,036. 3 Claims. (Cl. 268—14.)

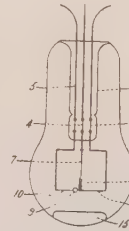
1. The combination with a framed opening and a swinging closure therefor mounted to swing about vertical supports, of an operating mechanism for said closure comprising a pivoted operating lever, a guide track carried by said closure adjacent the bottom thereof, a sliding block engageable with the guide track and adapted to

be detachably connected to the operating lever and a keeper plate pivotally mounted on the sliding block for



retaining the operating lever in connection with the sliding block.

1,422,553. INCLOSED-ARC LAMP AND METHOD OF STARTING THE SAME. ERNST FRIEDERICH, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Original application filed Oct. 13, 1914, Serial No. 866,438. Divided and this application filed Jan. 28, 1916, Serial No. 74,935. Renewed Dec. 7, 1921. Serial No. 520,719. 11 Claims. (Cl. 176—1.)



1. An electric arc device comprising the combination of a sealed envelope, refractory metal electrodes therein adapted to operate at incandescence and remaining substantially intact when supporting an arc discharge, and a supply of vaporizable halogen salt having a luminous spectrum for imparting light of desired color to an arc between said electrodes.

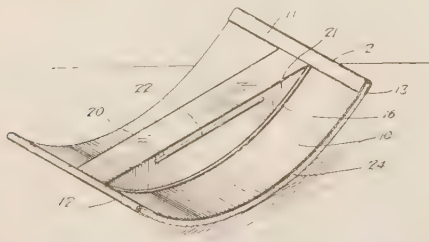
1,422,554. BAG FRAME. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of New Jersey. Filed Dec. 1, 1919. Serial No. 341,679. 3 Claims. (Cl. 150—29.)



1. A bag frame comprising hinged members, each frame member comprising a channelled main body portion and

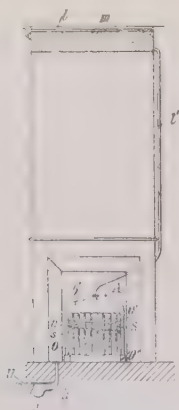
hinged members, means for pivotally connecting the lower ends of said frame members, the hinge members adjacent their pivotal connection on the top side only abutting thereby presenting a continuous or unbroken top surface, and the under side of said hinge members adjacent their pivotal connection being cut away to present an open space to permit the bag material to enter in order to facilitate the maximum opening of the bag frame.

1,422,555. **BLOTTER.** FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Aug. 27, 1921. Serial No. 496,000. 3 Claims. (Cl. 120—24.)



3. A blotter comprising an oblong rectangular metallic plate having a uniform arcuate curve, open transverse loops at the ends of said plate, a pair of spaced ribs raised on the concave side of said plate extending from end to end thereof, depressed seats arranged in paired intervals interjacent said ribs there being open slots intervening said seats and ribs, a handle formed of sheet metal having a flat top and right-angled sides cut to fit said plate between said ribs, outstanding ribs on the sides of said handle, and prongs extending radially from the arcuate edges of said handle sides through the mentioned slots and clenched upon said seats thereby forming a substantially level bottom on the convex side of said blotter plate.

1,422,556. **HEATING SYSTEM.** GUSTAVE GABET, Paris, France. Filed Dec. 10, 1919. Serial No. 343,700. 5 Claims. (Cl. 126—132.)



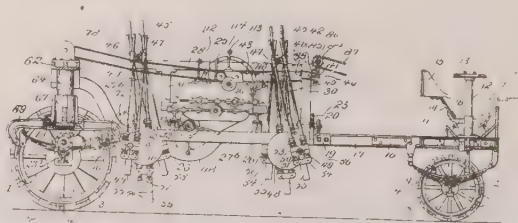
1. In a central heating system, the combination with a chimney having an open fireplace, a chamber placed at the lower part of the fireplace, a chamber placed at the upper part, vertical tubes connecting the two chambers, the upper part of said tubes being bulged outwardly and a substantially horizontal tube placed in the concavity formed by the bulged portions of the tubes and connected to certain of said pipes.

1,422,557. **PISTON-RING COMPRESSOR.** GEORGE GARBETH, Stockton, Calif. Filed Jan. 5, 1921. Serial No. 435,118. 7 Claims. (Cl. 29—36.4.)



1. A piston ring compressor comprising a split spring band whose ends normally overlap and shaped to form a circle, a pair of handles extending parallel to the axis of the band, one handle being directly connected to the band, and means between the other handle and the band and connected to both, and at a point on the band opposed to the connection of the first named handle therewith, the handles being arranged to be manipulated in unison to alter the size of the band circle.

1,422,558. **TRACTOR.** LOU M. GARDINER, Pittsburgh, Pa., assignor to The Iron Horse Tractor Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1920. Serial No. 374,185. 14 Claims. (Cl. 180—8.)

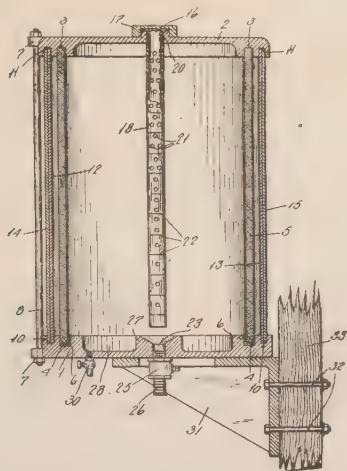


1. In a tractor, the combination of a frame, a vertically adjustable sub-frame associated with the frame, ground penetrating means carried by the sub-frame, and means also carried by the sub-frame to actuate the ground penetrating means; said actuating means comprising a motor and a transmission gearing with a connection to raise and lower the sub-frame and another connection to drive the ground penetrating means.

1,422,559. **LIQUID CONTAINER.** BERNARD F. GERMANI, Seattle, Wash. Filed Apr. 22, 1921. Serial No. 463,480. 1 Claim. (Cl. 221—95.)

A liquid container, consisting in combination in a base and top formed with aligned concentric grooves in their upper and lower faces, respectively, a glass cylinder secured in liquid-tight condition in said grooves, external rods to secure said base and top in fixed relation, fixed curved plates arranged in said grooves on opposite sides and exteriorly of said cylinder and extending each approximately ninety degrees about said cylinder, movable plates slidable in said grooves intermediate said cylinder and said fixed plates adapted to close the spaces between and slidable behind said fixed plates, a filling tube extend-

ing axially within said cylinder and dependent from an aperture in said top, said tube being formed with spaced holes along its length and increasing in number towards

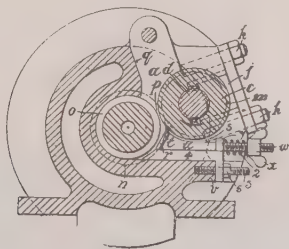


said top, and with graduation marks along its length, said base having a raised central boss and an annular depression thereabout, an outlet for liquid in said boss and an outlet for sediment in said depression.

1,422,560. PROCESS OF MAKING ALUMINUM CHLORIDE. HARRY D. GIBBS, Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed May 19, 1921. Serial No. 470,841. 10 Claims. (Cl. 23—13.)

7. The process of producing aluminum chloride which comprises subjecting aluminum to the action of chlorine at a temperature below 0° C.

1,422,561. RUBBER-FORCING MACHINE. JOHN WILLIAM GOMERSALL, Manchester, England. Filed Nov. 1, 1920. Serial No. 421,153. 2 Claims. (Cl. 18—12.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

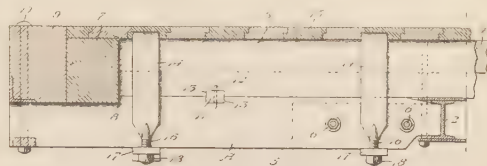


1. In a rubber-forcing machine, the combination with the single roller of a doctor located below it and adapted to be automatically drawn towards the periphery of the roller by a spring, and a spring operatively connected with the said doctor.

1,422,562. UNDERFRAME AND DRAFT-ARM CONNECTION. GEORGE N. GOODIN, Macon, Ga., assignor of one-half to Harry B. Grimshaw, Portsmouth, Va. Filed Oct. 14, 1921. Serial No. 507,707. 4 Claims. (Cl. 105—420.)

1. An underframe including draft-arms or timbers, center sills, a filler interposed between the upper halves

of the center sills, a body bolster, a block between the rear ends of the draft-arms or timbers extending to the



body bolster and holding the arms spaced apart, and a supporter extending around said parts.

1,422,563. WRENCH. NELSON WOODTHORPE GRAHAM, Johannesburg, Transvaal, South Africa. Filed Sept. 15, 1920. Serial No. 410,556. 4 Claims. (Cl. 81—103.)



1. A wrench comprising a handle portion provided with a fixed jaw, and a movable jaw, the latter having an extension in which a row of holes is formed in the direction of its length, a part pivotally connected to the fixed jaw and having an opening through which the movable jaw extension passes and moves in a direction parallel to the handle portion, and also having a hole which passes through the sides thereof and communicates with said opening, and a pin which is adapted to engage in said hole and also in any one of the row of holes in the movable jaw extension to retain the movable jaw in different positions relative to the fixed jaw.

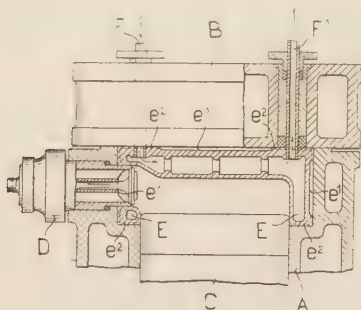
1,422,564. PROCESS OF SULPHONATING CARBON COMPOUNDS. ARMIN R. GROB, Wilmington, Del., and CARLETON C. ADAMS, Pennsgrove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 30, 1920. Serial No. 393,101. 11 Claims. (Cl. 23—24.)

1. A process of sulphonating an organic compound which comprises bringing together the compound to be sulphonated and sulphur trioxide in a medium of liquid sulphur dioxide.

1,422,565. COOLING DEVICE FOR INTERNAL-COMBUSTION ENGINES. CARL GRUNWALD, Essen-Bredene, Germany, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Filed Nov. 9, 1921. Serial No. 514,045. 4 Claims. (Cl. 123—173.)

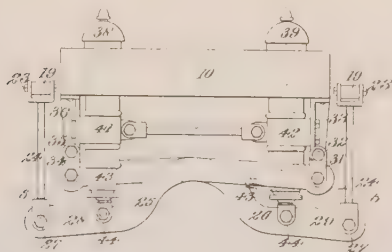
2. A cooling device for internal combustion engines having a cylinder cover over its combustion chamber, said device comprising an exchangeable hollow member at the combustion end of the cylinder, said member having

apertures for receiving the valve cages and spaces for cooling fluid, surrounding said valve apertures, recesses between the outer surface of the walls, of said hollow



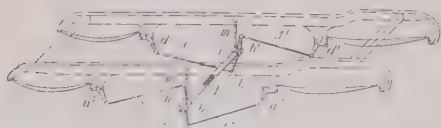
member, remote from said combustion chamber, and the adjacent parts of the cylinder and the cylinder cover, and connecting means between said recesses and between said combustion chamber and said recesses.

1,422,566. AIR-SPRING RIGGING. LUCIEN R. GRUSS, San Francisco, Calif., assignor to Pneumatic Cushion Co., San Francisco, Calif., a Corporation of Arizona. Filed Aug. 27, 1919. Serial No. 320,229. 3 Claims. (Cl. 267—18.)



2. The combination with a frame and axle of a vehicle and a leaf spring interposed between and having one end connected to the frame and extending longitudinally thereof of a telescopic cushion device having one member connected to the frame and carried out of line with the leaf spring and a flexible load carrying connection between the remaining member of the telescopic device and leaf spring, said connection including a transversely arranged lever fulcrumed on the vehicle frame and pivotally connected to the cushioning device and a pendent link connection between the lever and leaf spring.

1,422,567. VEHICLE SUSPENSION. RENÉ GUILLERY, Aubervilliers, France, assignor to Société des Etablissements Malicot & Blin, Aubervilliers, Seine, France. Filed Nov. 11, 1920. Serial No. 423,393. 6 Claims. (Cl. 280—104.)

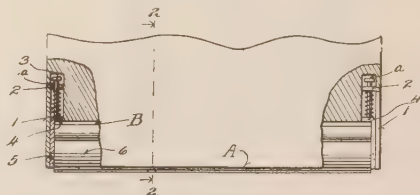


1. In a suspension for vehicles, a chassis, suspension springs on the chassis, a shaft mounted for swinging movement with respect to the chassis, levers arranged at the ends of said transverse shaft, and means connecting each of said levers to the corresponding suspension spring of the vehicle.

1,422,568. MANUFACTURE OF ALUMINUM CHLORIDE. FRANK W. HALL, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Original application filed Mar. 1, 1920. Serial No. 362,199. Divided and this application filed Sept. 20, 1921. Serial No. 501,985. 8 Claims. (Cl. 23—13.)

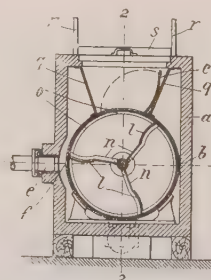
4. The process of manufacturing aluminum chloride which consists in reacting chlorine, sulfur and powdered alumina under conditions to form aluminum chloride.

1,422,569. FLOATING WEATHER STRIP. JOHN W. HAMMES, Racine, Wis. Filed May 23, 1921. Serial No. 471,805. 1 Claim. (Cl. 20—68.)



In a swinging closure having a longitudinally disposed cavity in its edge, a yieldable floating roller mounted in the cavity and adapted to engage an opposed fixed surface to seal the gap between the fixed surface and the movable closure the combination of an auxiliary strip associated with the floating roller for engagement with the inner walls of the cavity, whereby currents of air tending to travel therethrough are checked.

1,422,570. APPARATUS FOR COOLING AND FREEZING OF FISH AND THE LIKE. WILLIAM BATE HARDY and JEAN JULIEN PIQUÉ, Westminster, London, England. Filed Oct. 12, 1920. Serial No. 416,508. 2 Claims. (Cl. 257—82.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



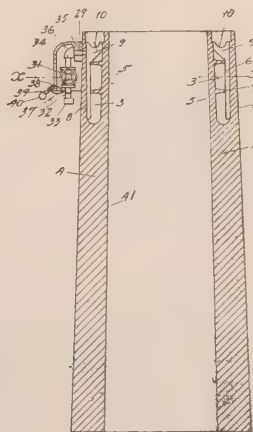
1. In a device for freezing perishable articles, a tank having a feed opening, an inner chamber, a gutter disposed within the tank for directing articles to the interior of the inner chamber, a cover for closing the feed opening, a chute for directing articles to the gutter, means for supplying and regulating a quantity of fluid to the inner chamber, and agitating means operating in the inner chamber.

1,422,571. METHOD OF EXTRACTING POTASSIUM SALTS FROM BITTERNS. IVAN F. HARLOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Nov. 27, 1916. Serial No. 133,717. 1 Claim. (Cl. 23—22.)

The method of recovering potassium salts from a bittern containing potassium carbonate among other potassium salts and also containing sodium salts, such bittern being concentrated approximately to the point of saturation, which consists in adding calcium chloride thereto in an amount chemically equivalent to the potassium present; heating the solution to approximately 95 degrees C.,

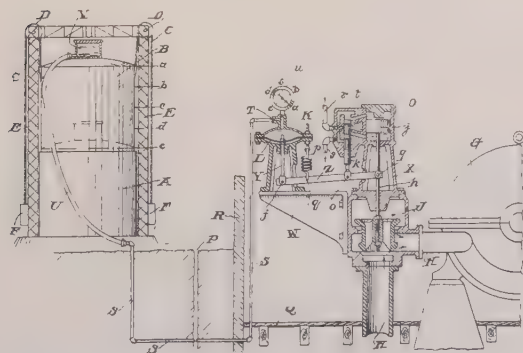
whereby calcium carbonate is precipitated out, leaving the potassium in solution in the form of the chloride; further heating the residual solution so as to concentrate the same to approximately three-fourths of its former volume, whereupon the sodium salts crystallize out of such solution while still hot; separating such crystallized salts from the mother liquor; and then cooling such liquor to approximately 20 degrees C., whereupon the potassium chloride will crystallize out practically pure.

1,422,572. INGOT MOLD. SAMUEL E. HITT, Elyria, Ohio, and JOSEPH I. PEXTON, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 431,641. 13 Claims. (Cl. 22—147.)



1. In a mold for casting ingots and the like characterized by the provision of a vacuum chamber in the upper portion of the mold wall, said vacuum chamber having an outer wall and an inner wall and being provided with means connecting said inner wall with said outer wall to compensate for the unequal expansion and contraction of said inner and outer walls of said vacuum chamber in both a longitudinal and a transverse direction.

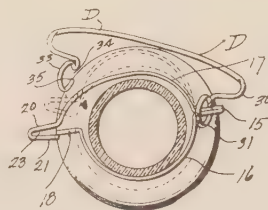
1,422,573. GAS-BOOSTER REGULATOR. PAUL HOFFMAN, Easton, Pa., and FORREST C. REED, Harriette, Mich., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 20, 1920. Serial No. 418,277. 4 Claims. (Cl. 48—173.)



1. Apparatus for regulating the output of a power driven machine for boosting or compressing gas, compris-

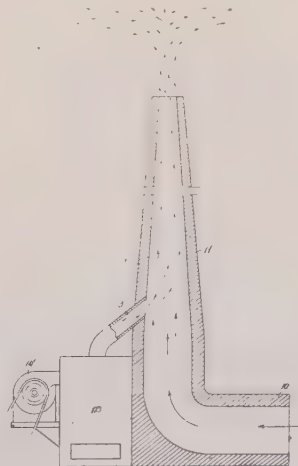
ing in combination with the supply tank or holder of gas and a gas bell for supplying the booster, of the inlet valve of the driving element of the machine, and a regulator connected to control said valve and responsive to hydrostatic pressure dependent upon the elevation of the said gas bell of the supply tank or holder, whereby the said driving element is regulated in accordance with the varying conditions of supply of gas to said tank and the regulator tends to maintain the gas bell of the tank in a certain average position.

1,422,574. MILK-BOTTLE CARRIER. CLARENCE E. HUGH, Bowen, Ill. Filed Dec. 29, 1920. Serial No. 433,873. 8 Claims. (Cl. 215—100.)



1. In a carrier structure, the combination of a collar split upon one side thereof, outwardly projecting portions formed upon the free ends thereof having aligning apertures therein, said collar having an outwardly projecting portion thereon diametrically opposite said split in the collar; and a bail permanently attached to said last mentioned projection of the collar, and adapted for insertion through the apertures in the free end projection portions for maintaining the collar in closed position.

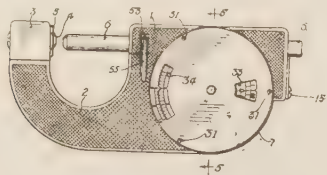
1,422,575. PROCESS OF DISCHARGING SMELTER GASES. WILLIAM H. HOWARD, Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 8, 1921. Serial No. 450,756. 8 Claims. (Cl. 266—1.)



1. In the art of safely discharging into the air, furnace gases which are obnoxious or harmful to vegetation or animal life, the method which consists in discharging such gases into a chimney or similar conduit extending high into the air, and simultaneously discharging into the chimney so as to mix thoroughly with the obnoxious gases therein, a gas of an unobjectionable character having a temperature higher than the temperature of the atmos-

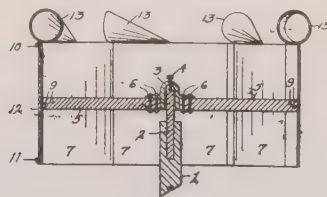
phere and in a volume sufficient to mix with and thus dilute the obnoxious gases to an extent such that the mixture formed in the chimney will readily diffuse into the atmosphere and by extreme dilution of the obnoxious gases therein have its objectionable characteristics reduced before it can come in contact with vegetation in the vicinity.

1,422,576. MEASURING GAUGE. WILLIAM HUMPHREYS, Fullerton, Pa., assignor to Wilmort Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1919. Serial No. 347,554. 8 Claims. (Cl. 33-147.)



1. In a measuring gauge the combination of a frame member having an extension supporting an adjustable contact screw, said frame member comprising an open housing for enclosing an indicating dial, a gauging stem slidable in said housing and adapted to cooperate with said contact screw, a cover plate for closing said housing, a shaft in said housing for supporting said dial, and jewel bearings mounted in said housing and in said cover plate for pivotally supporting said shaft, said jewel bearings comprising shank portions pressed into rigid setting in openings in said housing and said cover plate and having heads bearing against said housing and said cover plate.

1,422,577. ADVERTISING WHEEL. OSCAR W. JONES, Cambridge City, Ind. Filed Feb. 7, 1921. Serial No. 443,086. 1 Claim. (Cl. 40-39.)

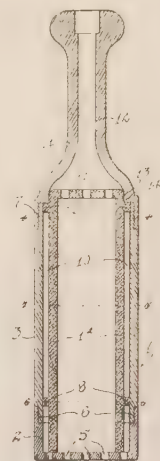


A construction of the nature set forth comprising a vertical post, a pivot extending up from the upper end of the post, a hub having a central cavity to receive said pivot, a set-screw for securing the hub in place on the pivot, a plurality of spokes radiating from the hub, a sheet metal band connecting the outer ends of the spokes and bent to form display portions each extending from the end of one spoke to the side of the spoke next thereto thereby forming wings each parallel with its respective spoke, all of said display portions and wings being integral parts of said metal band, a removable plate adapted to be placed over the face of each of said display portions, and means for retaining said plates removably in position, all substantially as shown and described.

1,422,578. CIGAR AND CIGARETTE ASH RETAINER. CARSTEN H. KATTENBERG, San Francisco, Calif. Filed July 6, 1920. Serial No. 394,130. 1 Claim. (Cl. 131-22.)

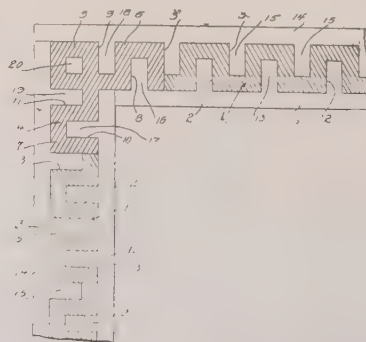
A device of the character described including a tube within a tube, the outer tube having a mouth piece and

constructed in threaded sections, one of the sections comprising a perforated end closure, the inner tube having radial lugs for spacing the same from the outer tube to provide a cooling chamber around the inner tube and hav-



ing an open front end and a perforated opposite end, and said inner tube being produced from a heat resisting substance and capable of a sliding withdrawal movement from the outer tube.

1,422,579. METHOD OF MAKING RUBBER TILING. WILLIAM J. KENT, Brooklyn, N. Y., assignor to Peerless Rubber Manufacturing Company, a Corporation of New York. Filed Apr. 9, 1921. Serial No. 460,105. 2 Claims. (Cl. 18-61.)

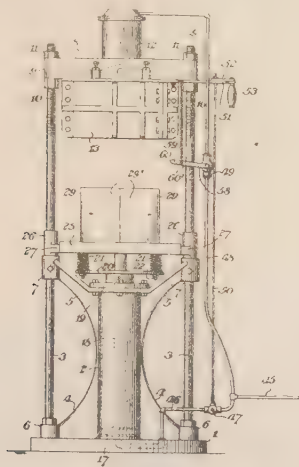


1. A method of making tiling which comprises forming similar strips with integral projections in pairs simultaneously from a single sheet of rubber, the projections of one strip being formed from the stock between the projections of the other strip, assembling the strips thus formed with other portions of the tiling having recesses by fitting the projections in said recesses and finally vulcanizing the tiling.

1,422,580. BOX-PRESSING MACHINE. MATHIAS R. KONDOLF, Philadelphia, Pa. Filed May 9, 1921. Serial No. 468,132. 15 Claims. (Cl. 93-36.)

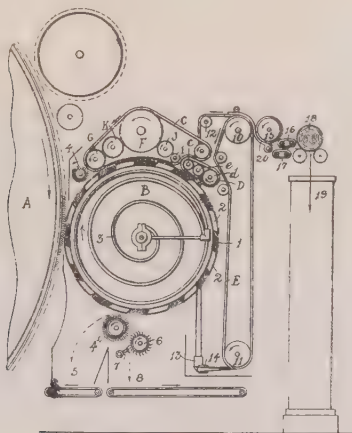
1. In a box pressing machine, the combination, with a female form having an angular cross-section, of a male form having a similar cross-section and adapted to press

a box therein, said male form having relatively movable angular sections and means for moving said sections



toward the respective angles of said female form while permitting their automatic adjustment relatively to the material under pressure.

1,422,581. PROCESS OF AND APPARATUS FOR PREPARING TEXTILE FIBERS FOR SPINNING. GUILLAUME CLEMENT LAURENCY and MARCEL VIGIER, London, England. Filed May 26, 1921. Serial No. 472,851. 4 Claims. (Cl. 19—99.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

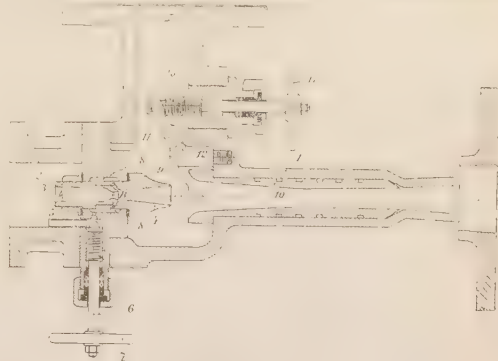


1. The process of preparing textile fibers for spinning consisting in the removal of the fibers from the carding engine cylinder in a series of separate tufts, carding and combing a portion of said tufts during removal, retaining the tufts by sectional combs whilst carrying them away from the card, ironing said tufts under the application of heat and friction and removing the fibers from the carrying means by friction whilst their forward ends are combed, seizing said forward ends to enable the rear ends of the tufts to be combed, and joining the combed fleeces together so as to form a continuous wide sheet.

1,422,582. STEAM EJECTOR. MAURICE CHARLES ARMAND LEBLANC, Val-sur-Seine, par Croissy, France, assignor to Societe Anonyme pour l'Exploitation des Procédes Westinghouse-Leblanc, Paris, France. Filed Dec. 19, 1919. Serial No. 346,196. 5 Claims. (Cl. 162—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. In combination in an ejector, a diffuser communicating at one end with a source of fluid to be compressed and at the other with a region of higher pressure into

which fluid is to be compressed, a motive fluid delivery nozzle formed in parts arranged end to end and spaced

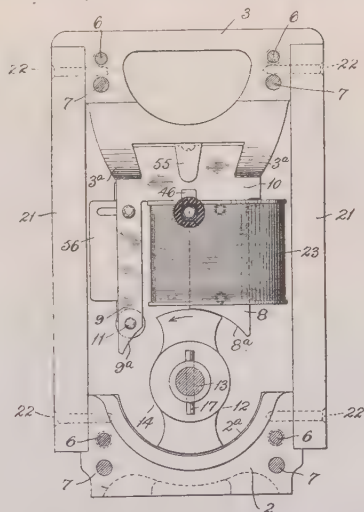


to form an opening between the parts for the admission of variable amounts of motive fluid to the nozzle.

1,422,583. PROCESS OF PURIFYING HIGHER SECONDARY ALCOHOLS. ROBERT B. LEBON, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Feb. 16, 1921. Serial No. 445,477. 6 Claims. (Cl. 260—156.)

1. The process of purifying secondary alcohols higher than isopropyl alcohol when in a mixture including isopropyl alcohol which comprises adding benzol at least sufficient to form a low-boiling-point mixture with the isopropyl alcohol and subjecting the mixture to fractional distillation.

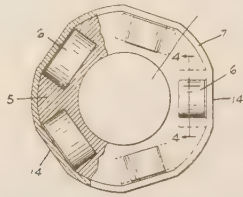
1,422,584. ELECTRIC GENERATOR. LEON J. LE PONTOIS, Lakewood, Ohio; Anna Le Pontois, administratrix of said Leon J. Le Pontois, deceased, assignor to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 28, 1917. Serial No. 158,094. 3 Claims. (Cl. 171—209.)



1. In an ignition current generator, the combination of a bottom pole piece of cast iron formed on its top side with a polar surface and on its bottom side formed to rest upon and be secured to a suitable support for the generator, a top pole piece comprising a cast iron block and a plurality of bifurcated laminæ secured thereto and forming depending polar projections with polar surfaces at their lower ends opposite the polar surface of the bottom pole piece, nonmagnetic end plates rigidly attached to the said pole pieces and forming therewith a rigid supporting frame, permanent magnets in the form of straight bars disposed on opposite sides of said supporting frame with their north pole ends abutting one pole piece and their south pole ends abutting the other pole piece, a generating winding in inductive relation to one of said polar projections, and an unwound inductor rotor operably

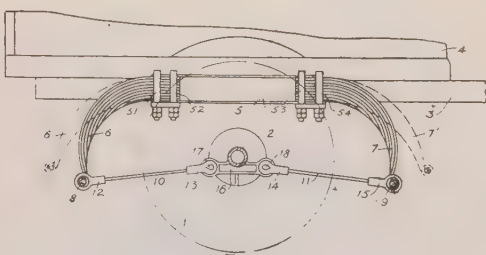
mounted in said end plates and shaped and correlated to said polar surfaces of the poles alternately to establish a flux path through said winding and then a path outside of said winding.

1,422,585. THRUST BEARING. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Mar. 18, 1920. Serial No. 366,748. 3 Claims. (Cl. 64—50.)



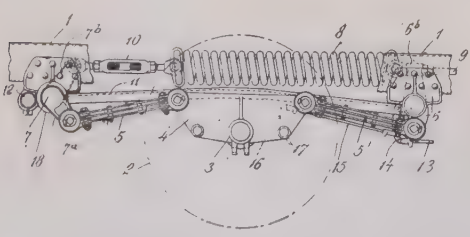
3. A thrust bearing comprising a cage of relatively small circumference having a series of spaced recesses around its periphery, a roller of relatively large axial diameter fitting in each of said recesses and having its ends flat and at right angles to its axis, the edge face of said cage being flattened at the bottom of each recess, and a band adapted to extend around the periphery of said cage for retaining the rollers in the recesses, said band being bent inwardly at points in registration with the flat spaces on the cage and said bent-in portions flattened and extended in line with the flat ends of the rollers to form bearings whereby the entire outer end surfaces of the rollers will be engaged by said inwardly bent portions.

1,422,586. VEHICLE SUSPENSION. BENJAMIN LIEBOWITZ, New York, N. Y. Filed Apr. 27, 1916, Serial No. 93,837. Renewed Apr. 17, 1917. Serial No. 162,757. 6 Claims. (Cl. 267—25.)



4. In a vehicle suspension the combination of an axle, a vehicle frame, a pair of leaf springs secured to said frame and extending downwardly on opposite sides of the axle, said springs being subjected to an initial strain which is greater than the maximum subsequent strains due to relative displacements of body and axle within the limits of the spring design, and a pair of tension members connecting the lower ends of said springs to the axle.

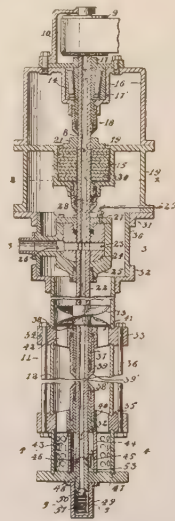
1,422,587. VEHICLE SUSPENSION. BENJAMIN LIEBOWITZ, New Rochelle, N. Y. Filed July 31, 1919. Serial No. 314,559. 7 Claims. (Cl. 267—20.)



2. In a vehicle suspension, a bell crank carried by the frame, an initially strained spring in which the subsequent

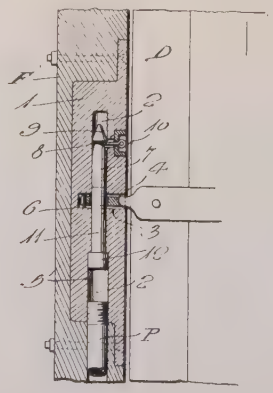
stress variations due to relative displacement of body and axle are substantially within the nonfatiguing range of the spring material, said spring having one end fixed to the frame and having the other end connected with an arm of the crank, a tension member connecting the other arm of the crank with the axle, and a second tension member connecting the axle with the frame.

1,422,588. DEEP-WELL PUMP. ELIJAH D. McDONALD, Los Angeles, Calif. Filed Feb. 2, 1921. Serial No. 441,920. 7 Claims. (Cl. 253—182.)



1. In a pump, the combination of a rotatable shaft having a steam passage extending downward through said shaft, means for admitting steam thereto, screw impellers on said shaft, a casing surrounding said shaft and impellers and comprising a plurality of casing sections, circular members disposed between said sections and having an annular shaft guide supported by said circular members, packing means on said guide, means for securing each circular member to adjacent circular members, said members provided with water passages having their outer perimeter of lesser radius than the screw impellers, a suction cage fixed to the lower end of said casing, a water-tight compartment within said casing, a thrust bearing disposed within said suction cage and adapted to center such shaft.

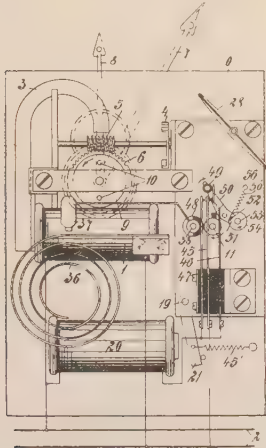
1,422,589. CAR-DOOR LOCK. JOHN D. MCQUISTON, Sioux City, Iowa. Filed June 4, 1921. Serial No. 474,903. 3 Claims. (Cl. 292—33.)



1. A car door lock comprising a casing for permanent connection to the car body, a hasp for connection to the door, a temporary locking device in said casing for co-operation with the hasp, means for retaining said device in inoperative position, and a second fluid operated perma-

nent locking device also designed for co-operation with the hasp, said second device serving to automatically move said first device to inoperative position when said second device is rendered operative.

1,422,590. CLOCK. PAUL MANSEL, Siemensstadt, near Berlin, Germany, assignor to Siemens & Halske A. G., Berlin, Germany, a Corporation of Germany. Filed Feb. 6, 1917. Serial No. 146,939. 2 Claims. (Cl. 58—38.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

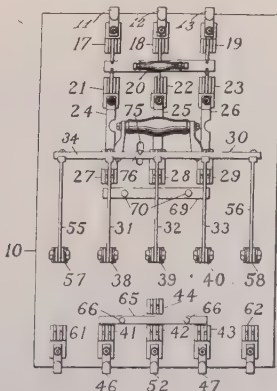


1. In an electrically actuated lock in combination a rack strike work, an electromagnet adapted to only drive said strike work, an armature actuated by said magnet, means permanently connected to said armature and operated by the same for lifting the striker, retarding means, permanently connected to said lifting means, and means for releasing the striker from all its operating elements when it has reached its uppermost position.

1,422,591. ALLOYS OF ALUMINIUM AND PROCESS OF PRODUCING THE SAME. ANTON MANHART, Vienna, Austria. Filed Aug. 12, 1920. Serial No. 403,156. 4 Claims. (Cl. 75—1.)

1. A hard, non-brittle, castable aluminum alloy having manganese, copper and tin as ingredients thereof, the amount of the aluminum present in the said alloy being in excess of the amount present of any other ingredient of the said alloy.

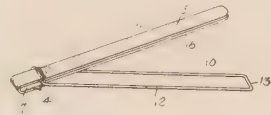
1,422,592. COMPENSATING STARTING SWITCH. VAN N. MARKER, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,659. 10 Claims. (Cl. 172—179.)



2. The combination with a three wire feed line, a motor and compensating coils connected to a common termi-

nal, of a multiple blade, double throw switch hinged to the motor circuit terminals for directly connecting said motor circuit to the line in the running position of the motor, and having auxiliary blades cooperating with the main blades for connecting said motor circuit terminals in divided circuits with said coils and to said common terminal in the starting position of the switch and arranged to completely disconnect said coils from all the wires of said line when the switch is in its running position.

1,422,593. HAIR CURLER AND WAYER. ALFRED V. P. MARTIN, Brooklyn, N. Y. Filed Apr. 9, 1921. Serial No. 459,969. 4 Claims. (Cl. 132—41.)



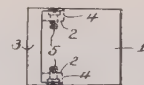
4. As an article of manufacture, a hair curler and waver, comprising a frame member and a locking member, the latter being formed of a single piece of spring material doubled up to provide two normally overlying parts, the bend of the piece forming an elongated eye slidingly and pivotally engaging one end of the frame member, the said parts of the locking member being adapted to be pried apart to receive a portion of a bunch of hair between them, the free end of the one member being adapted to be interlocked with the free end of the other member to clamp another portion of the same bunch of hair between the members.

1,422,594. PIN-TUMBLER LOCK. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Sept. 2, 1921. Serial No. 497,939. 6 Claims. (Cl. 70—47.)



1. A pin tumbler lock comprising a cylinder and a plug, said plug comprising two parts having interlocking connection with each other, one of said parts made of hardened metal and constituting an armor head.

1,422,595. CYLINDER LOCK. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Mar. 29, 1922. Serial No. 547,814. 2 Claims. (Cl. 70—46.)

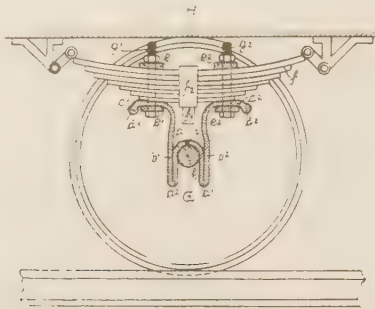


2. The combination with a lock cylinder having recesses in its peripheral wall, of an armor cap or facing on the end of the cylinder, ears projecting from said armor cap or facing and entering said recesses in the cylinder wall, and fastening devices passing through said ears and entering the cylinders.

1,422,596. EMERGENCY BEARING FOR RAILWAY CARS. FERDINAND MEHLIS, Berlin-Buchholz, Germany. Filed Dec. 28, 1921. Serial No. 525,440. 2 Claims. (Cl. 105—224.)

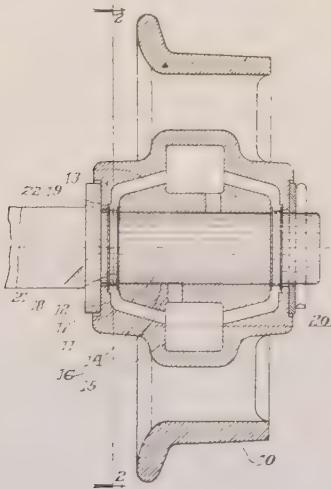
2. An emergency bearing for railway cars, comprising, in combination, a structure consisting of a middle part

forming an inverted U, legs extending upwards from the sides of said middle part, and horizontal flanges extending



from the upper ends of said legs to opposite directions; and means for affixing said structure to the bearing-springs of a railway car.

1,422,597. WHEEL. FREDERICK B. MILLER, Scottsdale, Pa. Filed Apr. 27, 1920. Serial No. 376,964. 1 Claim. (Cl. 64—26.)

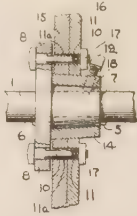


A self-lubricating wheel with a hub, a bearing portion in the hub for receiving an axle, an annular groove in the hub surrounding the axle and adjacent to the end of the hub, said groove provided with a counterbore in the side of the groove adjacent to the end of the hub, a ring in the groove hugging around the axle, said ring having two outwardly extending flanges, one of said flanges concentric within the counterbore means by which a lubricant flows to the bottom or periphery of the groove communicating with the bearing portion.

1,422,598. FRICTIONAL BUSHING COUPLING. LINDSAY WILSON MISENHEIMER, Great Falls, S. C. Filed Oct. 27, 1921. Serial No. 510,692. 6 Claims. (Cl. 287—52.)

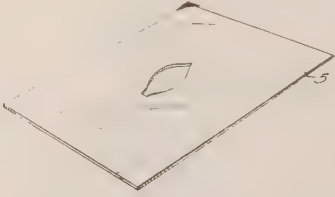
1. In a coupling of the character described, the combination of a shaft, with an inner split bushing keyed to the shaft, an outer bushing, an element mounted upon the outer bushing, said outer bushing with the element

thereon being mounted upon the inner bushing, and an adjusting means between the element and the inner bush-



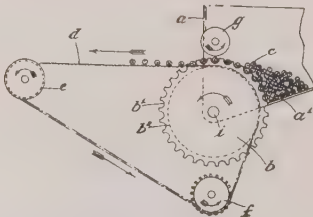
ing for rigidly connecting the parts together and causing the outer bushing to compress the inner bushing and bind it upon the shaft.

1,422,599. ORNAMENTING DEVICE AND METHOD. HARRY CECIL MITCHELL, Yonkers, N. Y. Filed Apr. 4, 1921. Serial No. 458,449. 5 Claims. (Cl. 41—26.)



1. Means for ornamenting surfaces comprising a stencil plate of colored material capable of being abraded having a pattern cut therein, and a buffer operable to abrade and remove particles of the material forming the plate and to apply the same to the surface to be ornamented.

1,422,600. APPARATUS FOR COLLECTING AND CONVEYING CIGARETTES OR THE LIKE. WALTER EVERETT MOLINS, London, England. Filed July 7, 1920. Serial No. 394,585. 5 Claims. (Cl. 131—39.)



4. In apparatus for collecting and conveying cigarettes and other articles and in combination, a hopper for the articles, a rotary cylinder having flutings to engage with the articles in the hopper and provided with peripheral grooves, endless moving conveyor chains mounted in the peripheral grooves in the fluted cylinder, and means for positively driving said chains at a higher peripheral speed than that of said cylinder.

1,422,601. BUCKET FOR HANDLING LOOSE MATERIALS. LEDLIE D. MOORE, Newtonville, Mass. Filed June 17, 1920. Serial No. 389,572. 14 Claims. (Cl. 37—30.)

1. In a material handling bucket, the combination of a pair of jaws, each comprising a shell having an end plate, and a pair of side plates having portions constituting arms projecting up beyond the shell, means pivotally

connecting the upper ends of the arms of one jaw with the arms of the other jaw; and stiffening and strengthening means for each jaw including braces extending downward from the arms, inward toward each other and to the end

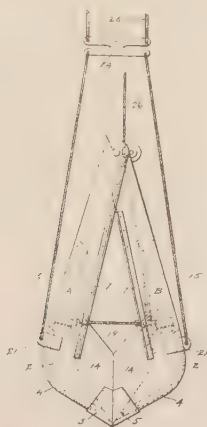
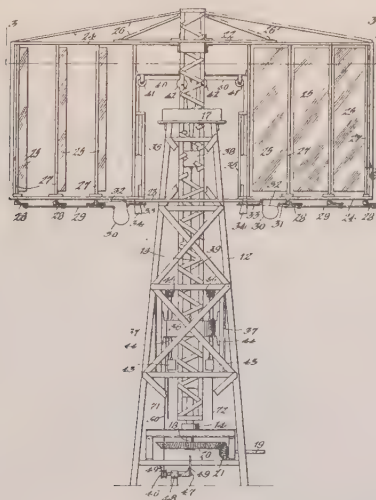


plate of the shell, said braces being rigidly secured to said arms and end plate, and together with the side plates and end plate forming a triangular system of bracing for the jaw.

1,422,602. WINDMILL. RAY MORRIS, Niagara Falls, N. Y. Filed Apr. 15, 1920. Serial No. 374,027. 9 Claims. (Cl. 170—26.)

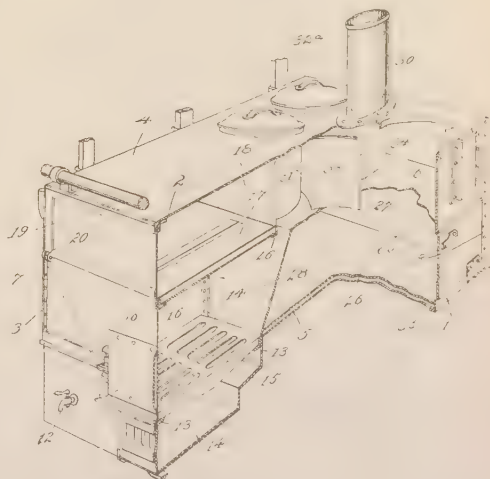


1. A motor of the character described, comprising a horizontal wheel, an upright rock shaft journaled in the wheel and having a crank, an upright vane carried by said shaft, a horizontally-swinging adjusting lever mounted on said wheel and connected with said crank, and means for actuating said lever.

1,422,603. ROLLING KITCHEN. JAMES MORRISON, Cincinnati, Ohio, assignor to The Trailmobile Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 22, 1920. Serial No. 367,736. 3 Claims. (Cl. 126—276.)

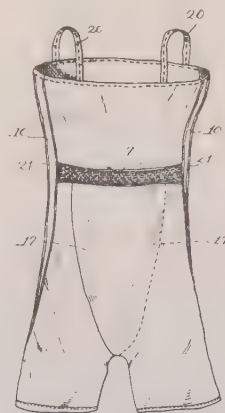
1. In a rolling military kitchen, the combination of a substantially rectangular frame and shell, with the interior of the shell at the rear divided into a fire box, two water compartments and a cooker above the fire box and the interior of the shell at the front divided into a single

oven transverse the shell having a back wall forming part of the fire box, a plurality of supports for vessels for cooking formed in the top of the shell, a flue for the escape of products of combustion, vessels for cooking on the supports, said vessels presenting their lower surfaces



as baffles to enforce a passage of products of combustion over the top of the oven before reaching the flue, said cooker division of the fire box terminating short of the oven back wall, whereby the vessels receive direct heat and the oven top does also.

1,422,604. UNDERGARMENT. EDWARD B. MOWER, Chicago, Ill., assignor to The Futurist Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 19, 1920. Serial No. 425,084. 2 Claims. (Cl. 2—144.)

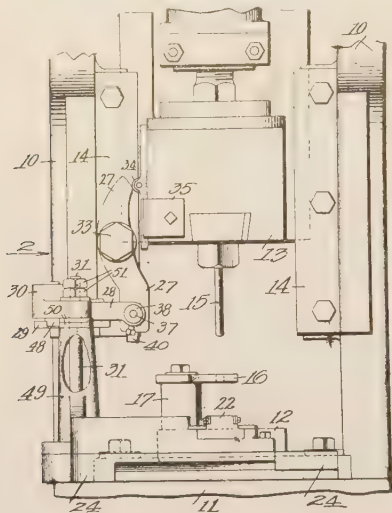


1. A garment of the character described, comprising a front section consisting of a single piece of fabric extending the full length of the garment, and forming the front of the leg portions thereof, upper and lower back sections substantially less in width throughout the upper and waist portions of the garment than said front sections, and relatively narrow side sections of inelastic fabric inserted between said front and back sections, and tapering from the upper and lower edges thereof toward the waist line.

1,422,605. PRESS-FEEDING MECHANISM. WILLIAM H. NEEDHAM, Worcester, Mass., assignor to Boston Pressed Metal Co., Worcester, Mass., a Corporation of Maine. Filed Apr. 13, 1918. Serial No. 228,441. 3 Claims. (Cl. 113—113.)

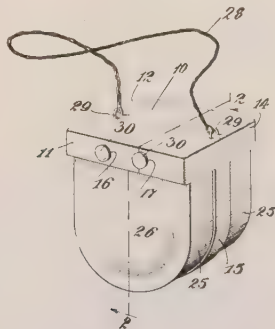
1. Press feeding mechanism having, in combination, separable holding jaws, a slide for said jaws, means to

move said slide and jaws alternately to receiving and delivery positions, an adjustable stop effective to spread



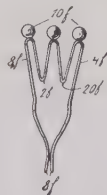
said jaws as they approach receiving position, and means to change the locus of the movement of said slide.

1,422,606. CONTAINER. EDNA A. NEIMAN, Brooklyn, N. Y. Filed Apr. 11, 1921. Serial No. 460,594. 5 Claims. (Cl. 132-83.)



1. In a container, in combination, a body member, means for maintaining a plurality of cosmetic sticks within the body, an extended partition carried by the body, two containers, each capable of retaining a powder compact and each formed of a side wall and a bottom, pivotally attached to the body at opposite sides of the partition and capable of pivotal movement with respect to each other and means whereby the two containers may be maintained in parallel position with their open tops facing each other.

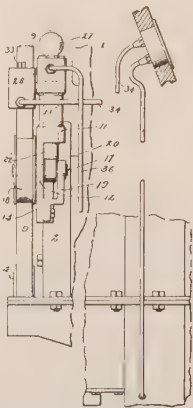
1,422,607. PIN. ADOLF NONNENMANN, New York, N. Y. Filed Mar. 24, 1919. Serial No. 284,534. 1 Claim. (Cl. 132-52.)



A hair pin constructed of a single length of material and comprising a pair of converging inclined legs, having

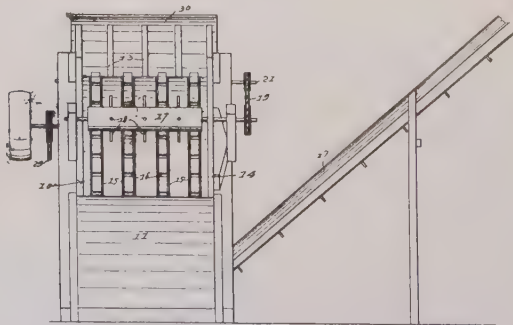
contact with each other at their extremities, a pair of V shaped portions projecting inwardly from the top of the pin towards said extremities, the outer legs of the V shaped portions being parallel with the converging legs, an inverted V shaped portion provided intermediate of the pair of V shaped portions, said inverted portion forming a spring to hold the extremities of the legs resiliently in contact and projections extending from the junction of the converging legs and the pair of V shaped portions, adapted to be grasped to compress the inverted intermediate spring portion to open the extremities of the converging legs.

1,422,608. LUBRICATING DEVICE FOR AUTOMOBILES. CARL V. NORD, Seattle, Wash. Filed Aug. 9, 1921. Serial No. 490,972. 1 Claim. (Cl. 184-27.)



An oil circulating pump, comprising a block member having a plate portion with a flange projecting laterally therefrom and of predetermined contour adapted to fit a portion of an engine casing, said plate portion having a bearing therein, a bracket secured to the plate portion and extending upwardly to form a bearing in alignment with the first-mentioned bearing, a shaft mounted in the bearings, the block member being formed into a pump above the plate portion and having a piston mounted to reciprocate therein, means on the shaft between the bearings for operating the piston in the rotation of the shaft, a pulley mounted on the shaft beyond the plate portion, and connections with the crank case of an engine whereby oil may be circulated therein.

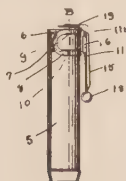
1,422,609. CORN-HUSKING MACHINE. GUSTAVUS NORGREN, Centerville, S. Dak. Filed Dec. 21, 1920. Serial No. 432,282. 5 Claims. (Cl. 130-5.)



1. A corn husking apparatus having an ear feeding mechanism provided with an endless apron or belt, husk-

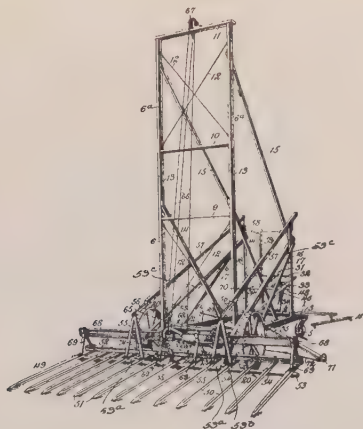
ing mechanisms having chutes for receiving the ears in endwise progressive position, and ear positioning means located adjacent to the delivery end of the feed mechanism for disposing the ears in parallelism with the direction of progress, said positioning means consisting of a rotary drum disposed axially in transverse relation to the movement of the apron of the feed mechanism and provided with fingers for engaging the ears carried by said apron.

1,422,610. RETAINING CLIP. JOSEPH J. O'BRIEN, Springfield, Mass. Filed Feb. 5, 1920. Serial No. 356,523. 12 Claims. (Cl. 24—11.)



1. The combination with a pen cap or the like having an encircling groove of a retaining member having a band in gripping relation to the cap or the like and a lug interlocked with said groove.

1,422,611. AUTOMATIC HAYSTACKER. LUCY OERTLI and CASPER OERTLI, Hamilton, Mont., and HENRY TURNELL, Elm Creek, Nebr. Filed July 13, 1920. Serial No. 395,840. 12 Claims. (Cl. 214—133.)

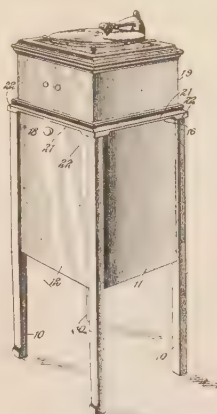


1. A haystacker comprising a vehicle, an upright frame erected on one end of the vehicle, said frame being hinged intermediate of its height, and upper and lower braces for holding the frame upright and permitting the folding of the upper section toward the lower section, the upper braces being disconnectible from the upper part of the frame.

1,422,612. RECORD CABINET FOR TALKING MACHINES. JOHN BROWNING OGDEN, Lynchburg, Va. Filed Mar. 21, 1921. Serial No. 454,075. 4 Claims. (Cl. 45—52.)

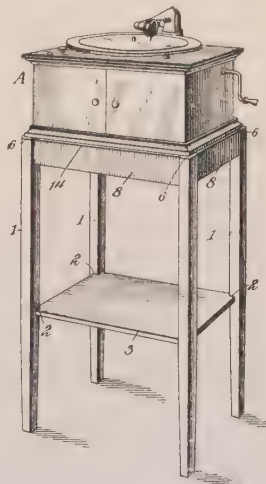
1. In a record cabinet designed to support a talking machine thereupon, said cabinet having substantially the same width and length as the talking machine and provided with legs, side panels and a door with no top, a

four-sided open frame seated within and secured to the cabinet below the upper edges of the panels and door, the



said upper edges of the panels and the door being shaped to fit the underside of the molded base of the talking machine, and constitute the support for the same.

1,422,613. CONVERTIBLE STAND AND TABLE. JOHN B. OGDEN, Lynchburg, Va. Filed Dec. 27, 1921. Serial No. 525,027. 4 Claims. (Cl. 45—92.)

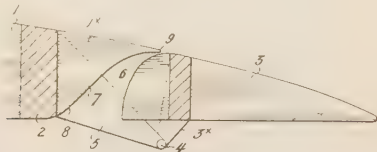


1. A convertible stand designed to support a talking machine thereon and present the appearance of a unified structure, or to be used as a table when the talking machine is removed, said stand having no top but being of substantially the same width and length as the talking machine, and comprising corner legs, a series of transverse rails connecting the legs at the top and forming therewith a rectangular support for the machine, said rails and said legs each having their upper edges formed with a bead, which beads are in alinement and form a continuous flange around the top of the stand, thereby providing a seat for the reception of either the base of a talking machine or a removable table top, said machine or said top closing the upper part of the stand when either is in use.

1,422,614. MEANS FOR BALANCING AND REGULATING THE LIFT OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Dec. 6, 1921. Serial No. 520,420. 4 Claims. (Cl. 244—29.)

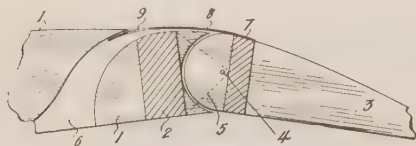
1. In laterally balancing or regulating the lift of the wings of aeroplane flying machine; the combination with

said wings, of flaps located at the rear edges of said wings, hinge members to support said flaps, and means extending from the structure of said wings to support said hinge members in such position relatively to said



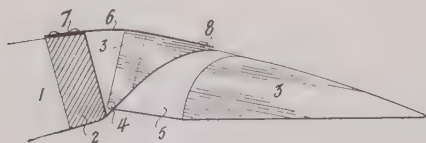
wings and said flaps, that a slot is formed between the forward edge of each of said flaps and the rearward edges of said wings when said flaps are turned downwards about their hinges, and said slot is closed when said flaps are in their normal or upturned positions.

1,422,615. MEANS FOR BALANCING AND REGULATING THE LIFT OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Dec. 6, 1921. Serial No. 520,421. 5 Claims. (Cl. 244—29.)



1. In laterally balancing or regulating the lift of the wings of aeroplane flying machines; the combination of flaps located at the rear edges of said wings, hinge members to support said flaps, means extending from the structure of said wings to support said hinge members, said wings having a slot from the under surface to the upper surface of said wing structure adjacent the leading edge of each hinged flap, said slot extending in length transversely to the line of flight, and means connected to and operable by said flap to close the opening of said slot in said wing structure when said flap is either in its normal or upward position, and to open said slot when said flap is moved into its turned down position.

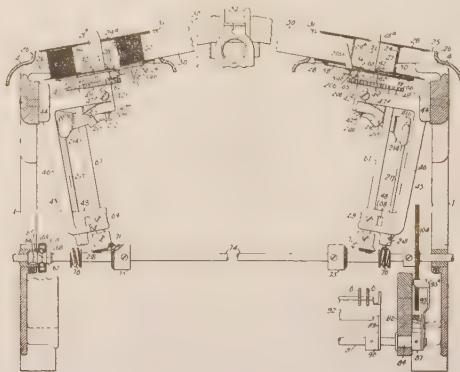
1,422,616. MEANS FOR BALANCING AND REGULATING THE LIFT OF AIRCRAFT. FREDERICK HANDLEY PAGE, London, England, assignor to Handley Page Limited, London, England. Filed Dec. 6, 1921. Serial No. 520,422. 4 Claims. (Cl. 244—29.)



1. In laterally balancing or regulating the lift of the wings of aeroplane flying machines, the combination of flaps located at the rear edges of said wings, hinge members located adjacent the forward end of each flap and connected to the main wing structure to pivotally support said flap, said flap having a slot extending from the under surface and adjacent the forward end of said flap to the upper surface of said flap, said slot extending in length transversely to the line of flight, and means in operative connection with the main wing structure to open said slot in said flap when the latter is turned into its downward position to admit of the passage of air through said

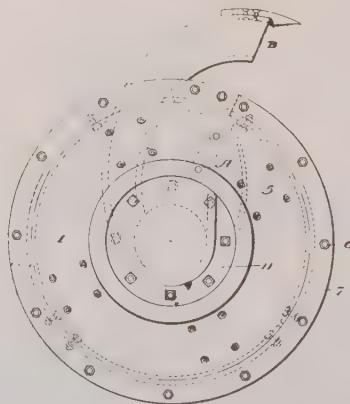
slot from the under surface to the upper surface of said flap and to close said slot when said wing flap is in its normal or raised positions.

1,422,617. TYPEWRITING MACHINE. JOSEPH PHELPS, North Caldwell, N. J., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Apr. 9, 1921. Serial No. 459,902. 14 Claims. (Cl. 197—160.)



1. In ribbon reversing mechanism for typewriting machines, the combination of a ribbon spool, a reversing device controlled by the ribbon on said spool, a gravity operated lever, a slide pin connecting said lever with said device, a reversing pin suspended from said lever, a ribbon driving shaft, and a worm connected thereto, said reversing pin co-operating with said worm.

1,422,618. DRUM FEEDER. GURDON T. POLLARD and OSCAR H. JOHNSON, Denver, Colo., assignors to The Mine & Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed Aug. 5, 1919. Serial No. 315,560. 6 Claims. (Cl. 83—9.)

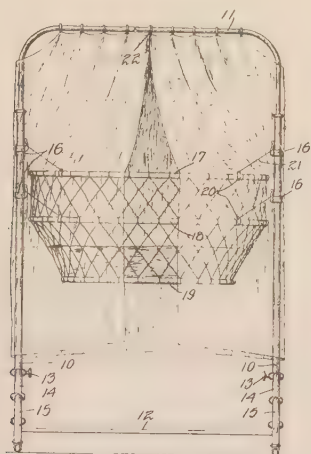


1. In a rotary feeder, a combined internal and external scoop cast in a single piece with a partition between the two, so that the feeds therethrough are kept separate and distinct until they reach the outlets of the scoops.

1,422,619. BASSINET. ALESSANDRO POMILIO, New York, N. Y. Filed Oct. 3, 1921. Serial No. 505,055. 7 Claims. (Cl. 5—56.)

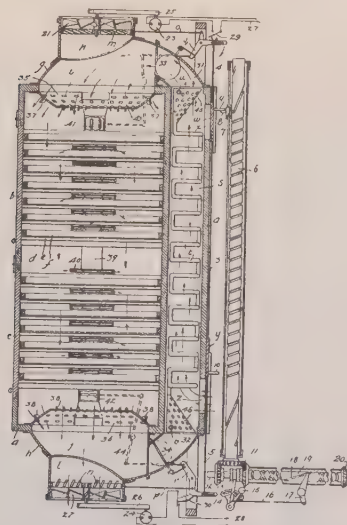
2. In a knock-down bassinet, a basket and a supporting frame therefor, said frame comprising a pair of tubular

uprights each resting on a supporting structure and a U-shaped member extending through the supporting struc-



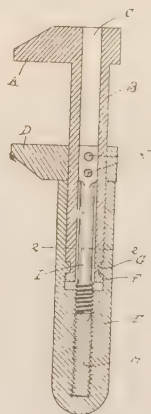
ture and into the lower end of each side member, substantially as set forth.

1,422,620. DEHYDRATOR OR DRIER. DUDLEY P. POWER, Portland, Oreg., assignor of one-third to Everett P. Babcock and one-third to Frank Delano, both of Portland, Oreg. Filed June 21, 1921. Serial No. 479,218. 9 Claims. (Cl. 34—39.)



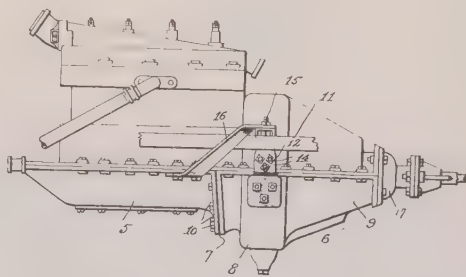
1. A dehydrator or drier comprising a drying chamber, an ante-chamber at each end of the drying chamber, such ante-chambers communicating on one side with the exterior of the drying chamber and on the other side with the exterior air, gates controlling the exterior air ports of said ante-chambers, fans adapted to cause currents of air to pass through said ante-chambers and said drying chamber, means for preheating the air admitted into said ante-chambers, automatic means adapted to operate said gates relatively to the predetermined movement of the air, and in time therewith to control the action of the devices for effecting the movement of the air through said drying chamber, the means controlling the air moving devices being adapted to reverse the latter at predetermined periods.

1,422,621. WRENCH. ARTHUR A. PREVOST, Detroit, Mich. Filed Jan. 23, 1922. Serial No. 531,091. 3 Claims. (Cl. 81—174.)



1. A wrench comprising a jaw member, a bifurcated shank extending therefrom and provided with notches adjacent to its end, a hollow handle member sleeved upon said bifurcated shank and having an inwardly extending flange engageable with said notches when the furcations are sprung inward, said handle being also provided with a threaded socket, a jaw member sleeved upon said shank member, a member insertable between the furcations of said shank member, being threaded for engagement with said threaded socket, and a cross connection between said last-mentioned member and the jaw member which is sleeved upon the shank, whereby the rotation of said handle will adjust said jaw member.

1,422,622. UNDERCASING FOR MOTOR-VEHICLE ENGINES. ROBERT DEE RIDDLE, Spartanburg, S. C. Filed Dec. 2, 1921. Serial No. 519,394. 6 Claims. (Cl. 180—64.)

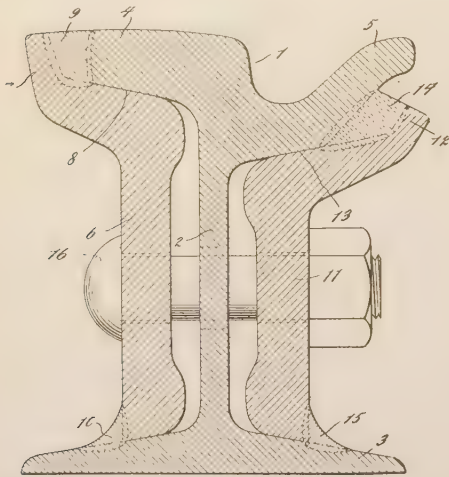


1. In combination with a supporting frame, an engine casing consisting of an upper part and a lower part, this lower part being divided transversely, means for securing the adjoining edges of the divided parts together, and a hanger means for the two parts consisting of independent hangers for said two parts, one of said hangers consisting of two separable parts bolted removably together.

1,422,623. WELDED RAIL JOINT. ELY M. T. RYDER, Yonkers, N. Y. Filed Jan. 27, 1922. Serial No. 532,180. 9 Claims. (Cl. 238—164.)

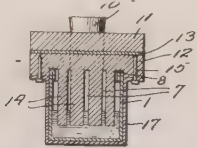
1. In combination, aligned rails having at their tops laterally-extending flanges, a fish-plate less in length than

either adjacent rail having a surface engaging the under sides of said flanges and extending outwardly and upwardly adjacent thereto past the plane of such surfaces



and forming with said flanges upwardly-facing grooves, and welding material within the grooves welding the side of said plate to the sides of said flanges.

1,422,624. POULTRY ROOST. FRANK C. SCHLINGLOF, Kenton, Ohio, assignor to The Corona Manufacturing Company, Kenton, Ohio, a Corporation of Ohio. Filed Sept. 27, 1920. Serial No. 412,962. 4 Claims. (Cl. 119—25.)

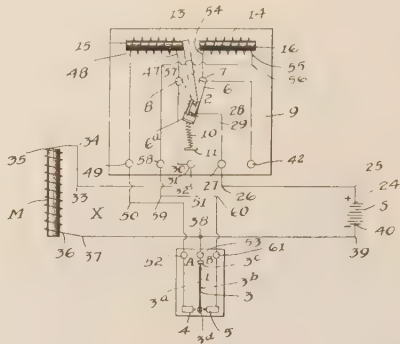


1. In a device of the type described, the combination of a disinfectant container and a perch adapted to be superposed thereon, said perch having means embedded therein to limit the rising of the oil or disinfectant under the capillary action with respect to the poultry-roosting surface or portion of said perch, and means integral therewith and depending into and adapted to automatically transfer said disinfectant from said container for destroying vermin.

1,422,625. ELECTRICAL CONTROL APPARATUS. CARL SCHWARTZ, New Rochelle, N. Y., assignor to Vapor Car Heating Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 27, 1918. Serial No. 219,368. 3 Claims. (Cl. 175—375.)

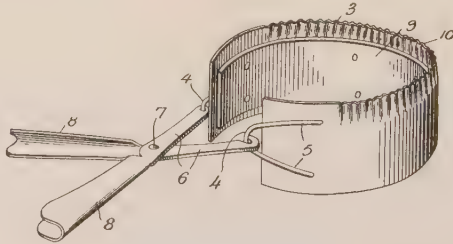
1. In combination, a thermostatically-operated initial switch, a main switch comprising a pair of fixed contacts and a movable contact, electrically operated means the circuit of which is controlled by said main switch, a pair of solenoids each being provided with a winding the energization of which is controlled by said thermostatically-operated initial switch, a common armature for said solenoids slidably connected to said movable contact member

and a spring anchored at one end and having its other end attached to said movable contact member for assisting the



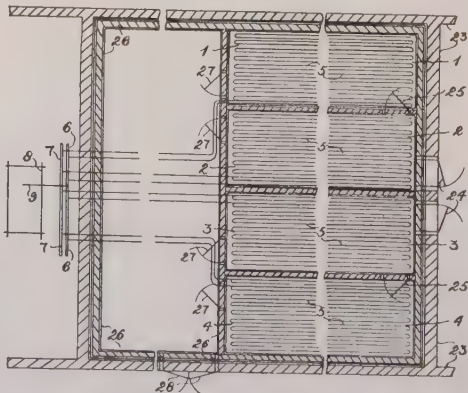
solenoid armature in actuating the movable contact member from one fixed contact to the other when either of said solenoids is energized.

1,422,626. FRUIT-JAR HOLDER. LEWIS H. SHANK, Paradise, Pa. Filed Aug. 13, 1920. Serial No. 403,270. 1 Claim. (Cl. 81—32.)



A combined fruit jar holder and closure remover therefor comprising a flexible metallic band, a pliable strip secured on the inner surface of the band, eye pieces secured to the respective ends of said band, tongs engaging said eye pieces for contracting and expanding the band, and the upper edge of said band being crimped whereby to provide a bearing element for engaging with the shoulder of the jar, substantially as set forth.

1,422,627. PROCESS OF CHILLING AND FREEZING ANIMAL SUBSTANCES. JOHN COUTTS SHAW, Pretoria, Transvaal, South Africa. Filed Sept. 5, 1918. Serial No. 252,772. 9 Claims. (Cl. 99—14.)

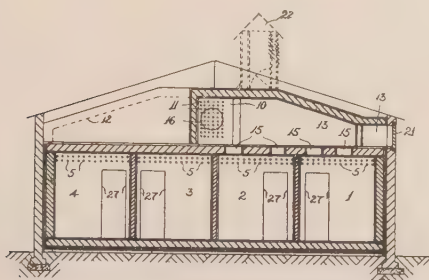


2. A process such as described which consists in continuously withdrawing for approximately ten hours air and

vapors from the chamber containing the meat under conditions forming a partial vacuum, simultaneously chilling the meat and finally freezing it.

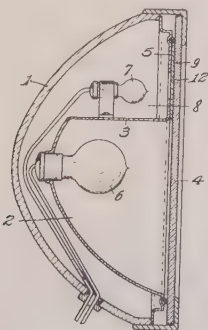
9. A process such as described which consists in chilling the meat in a chamber, continuously withdrawing air and vapors from the chamber under conditions forming a partial vacuum, then continuously circulating one and the same body of air through the chamber under substantially atmospheric pressure, continuously cooling the circulating air, simultaneously chilling the meat and finally freezing the meat.

1,422,628. APPARATUS OR PLANT FOR CHILLING AND FREEZING ANIMAL SUBSTANCES. JOHN COUTTS SHAW, Pretoria, Transvaal, South Africa. Original application filed Sept. 5, 1918, Serial No. 252,772. Divided and this application filed Mar. 11, 1920. Serial No. 365,112. 3 Claims. (Cl. 62—99.)



1. Apparatus for chilling and freezing animal substances, comprising a chamber, means for withdrawing air from the chamber, means for cooling the air withdrawn from the chamber, means for controlling the flow of the withdrawn air to either pass it to the atmosphere or to return it to the chamber, and means in the chamber for freezing the animal substances.

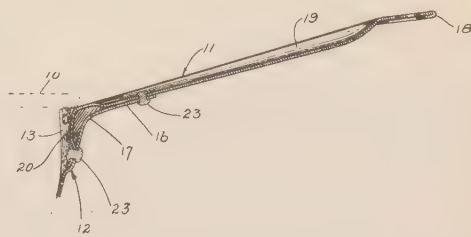
1,422,629. COMBINED HEADLIGHT AND DIRECTION INDICATOR. WALTER H. SHEEHAN, Steubenville, Ohio. Filed Sept. 1, 1921. Serial No. 497,469. 1 Claim. (Cl. 40—132.)



A combined head light and direction indicator comprising a lamp casing, a reflector disposed within said casing, a lamp located within said reflector, said reflector having a substantially horizontal upper wall extending to the front of said casing, said wall being located slightly above the axial plane of said casing and being adapted to intercept and reflect downward substantially all of the upwardly directed rays from said lamp, a lamp disposed within said casing above said wall, said reflector having formed integral therewith an upright wall forming

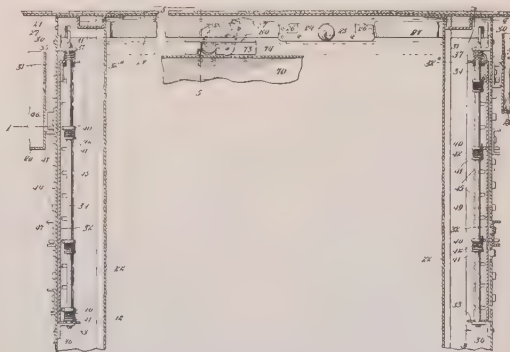
a non-transparent shield located in front of the last mentioned lamp, said shield having openings cut therein in the form of direction indicia, and a covering of transparent material for said openings, said shield and said covering being of corresponding color.

1,422,630. HANDLE. JOSEPH FREDERICK SMART, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 30, 1919. Serial No. 320,767. 5 Claims. (Cl. 53—1.)



1. A handle comprising an attaching member provided with a body portion having a flange adapted to engage against and be secured to a utensil, an outwardly extending boss located inside of said flange, and a tang extending outwardly from said boss; and a handle portion overlying and secured to said tang and also having a tang fitting within the recess provided by said boss and secured to said boss.

1,422,631. DESK-DRAWER LOCK. ION A. STAFFORD, Jamestown, N. Y. Filed Sept. 22, 1920. Serial No. 412,072. 12 Claims. (Cl. 45—94.)

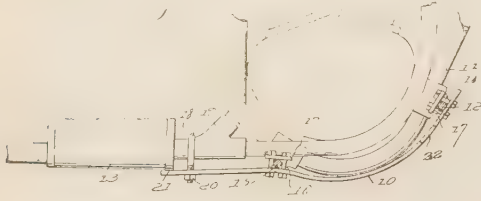


5. In a desk drawer lock, the combination with a desk frame and a plurality of desk drawers arranged therein, of a vertical rock shaft mounted in said frame, a plurality of locking dogs vertically adjustable on said rock shaft and adapted to lock said drawers, a rocking plate pivotally mounted on said frame coaxially with said rock shaft and provided with a vertical row of retaining devices for said locking dogs, and means for actuating and locking said rocking plate.

1,422,632. GUARD FOR MOTOR CYCLES. ROY STENDEL, Magdalena, N. Mex. Filed July 13, 1921. Serial No. 484,399. 3 Claims. (Cl. 208—140.)

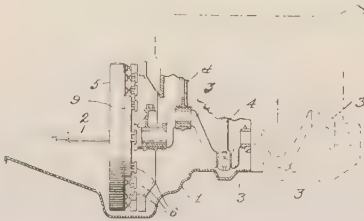
1. A guard for motorcycles and the like having an arcuate plate extended longitudinally beneath the vehicle

frame from the front foot rest bar to the muffler and conforming substantially to the shape of the lower side



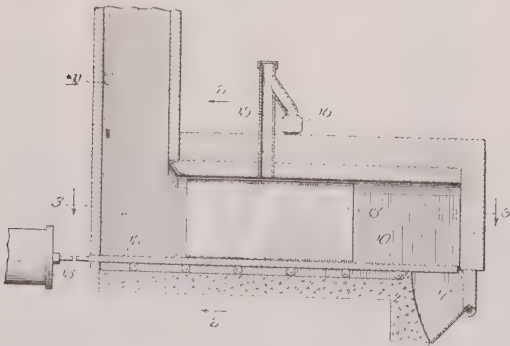
of the frame, means being provided for securing said plate to the foot rest bars.

1,422,633. COUNTERBALANCE FOR THE CRANK SHAFTS OF INTERNAL-COMBUSTION ENGINES. FRANK O. STERRETT, Rochester, Nev. Filed Aug. 11, 1921. Serial No. 491,630. 4 Claims. (Cl. 74-6.)



1. The combination with the crank shaft of a multi-cylinder internal combustion engine having its cranks disposed in the same plane, and a fly wheel mounted thereon, said fly wheel being counter-weighted in such manner that the counter-weighted portions are disposed thereon with respect to said cranks at substantially 90° intervals.

1,422,634. RETORT. LELAND L. SUMMERS, Chicago, Ill. Filed Aug. 12, 1920. Serial No. 402,944. 11 Claims. (Cl. 202-9.)

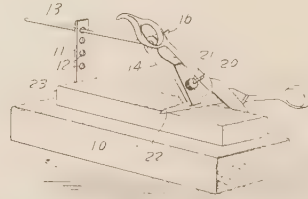


1. A coke oven comprising a retort having relatively large side wall area as considered in relation to the floor area, a reciprocating floor in said retort, means for feeding material to one end of said floor and for restraining the material against movement except in a direction toward the retort, and means for increasing the frictional resistance between the floor and the material.

1,422,635. GRINDING MECHANISM. ARTHUR O. S. TAYLOR, Billings, Mont. Filed Dec. 27, 1920. Serial No. 438,258. 1 Claim. (Cl. 51-158.)

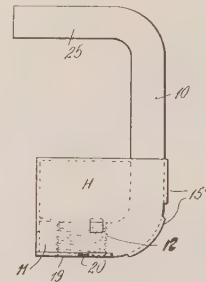
A base, a vertical standard attached to said base near the end of said base forming an abutment for an abrasive stone on said base, said standard having a vertical series

of holes, a rod of smaller diameter than said holes, the rod adapted to reciprocate in either of said holes, and a



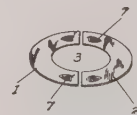
transverse clamp adjustably attached to one end of said rod to hold a blade against the upper surface of said stone.

1,422,636. CONCRETE INSERT. CHARLES C. TOMKINSON, Plainfield, N. J., assignor to J. Edward Ogden, Mountainville, Town of Cornwall, N. Y. Filed June 8, 1921. Serial No. 475,849. 5 Claims. (Cl. 72-105.)



1. A concrete insert comprising a bar having a ledge through which there is an opening, a housing extending over the opening, said housing comprising a pair of side walls and a roof, flanges bent over from the walls into contact with the bar whereby relative displacement between the bar and housing in one direction is prevented, and means extending from the side walls over the ledge for preventing displacement of said parts in the opposite direction.

1,422,637. SPOKE-TIGHTENING SHIM. JESSE D. TUCKER, Sacramento, Calif., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif., a Copartnership. Filed Feb. 27, 1922. Serial No. 539,661. 4 Claims. (Cl. 301-81.)

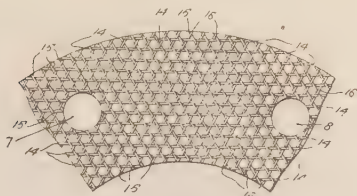


1. A spoke tightening shim comprising a flat member adapted to be placed about the tenon of a spoke, and yieldable prongs punched from the shim and projecting beyond one face thereof.

1,422,638. FLEXIBLE COUPLING. GUSTAV A. UNGAR, Pelham Manor, N. Y. Filed July 23, 1920. Serial No. 398,401. 4 Claims. (Cl. 64-96.)

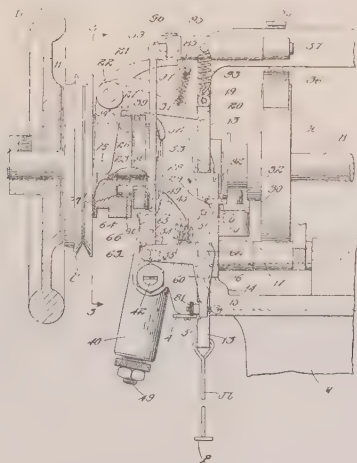
3. A device of the character described comprising, in combination, a driving and a driven member, each includ-

ing a spider having arms symmetrically disposed around the axis of rotation at angles of less than 180° relative to each other, the arms of one spider alternating with those of the other around said axis, and a flexible torque transmitting element attached to each of said arms, said flexible element comprising a plurality of layers of fabric



secured together and forming a single flat ring or disk-like member, each of said layers composed of three sets of strands interwoven with each other, the sets of strands arranged at angles of less than 180° relative to each other and parallel to the lines of pull between the arms of one spider and those of the other, respectively.

1,422,639. STOP MOTION FOR SHOE-SEWING MACHINES. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed July 31, 1916. Serial No. 112,230. 34 Claims. (Cl. 112-219.)

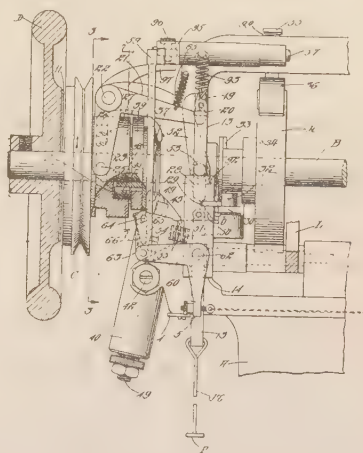


1. In combination with a machine including stitching mechanism, driving mechanism therefor, a stop motion which acts on the driving mechanism to increase the speed of the machine and then to stop it, and mechanism acting on the stop motion to prevent it stopping the machine except during a predetermined part of the cycle of operation of the stitching mechanism.

1,422,640. STOP MOTION. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Original application filed July 31, 1916, Serial No. 112,230. Divided and this application filed Oct. 31, 1917. Serial No. 199,402. 17 Claims. (Cl. 192-116.)

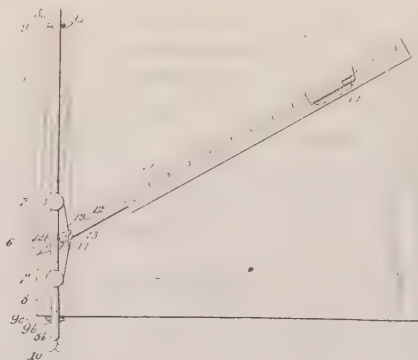
1. In a machine of the class described, in combination, a shaft, variable speed drive mechanism therefor, invariable speed drive mechanism, brake mechanism for

said shaft and devices constructed and arranged to cause said shaft to be driven momentarily at a predetermined



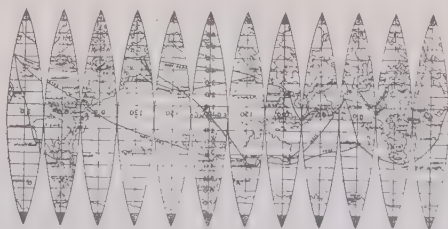
speed by said invariable speed drive mechanism immediately prior to the stopping thereof.

1,422,641. DRAFTING INSTRUMENT. CHARLES A. WALTERS, Marion, Iowa. Filed May 3, 1921. Serial No. 466,590. 4 Claims. (Cl. 33-76.)



1. A drafting instrument, comprising a protractor, a guide on which it is slidably mounted, a rod adapted to serve as a straight-edge and angle indicator pivoted at the protractor center, a clamping nut to bind the rod in position, and a slidable scale mounted revolvably on said rod.

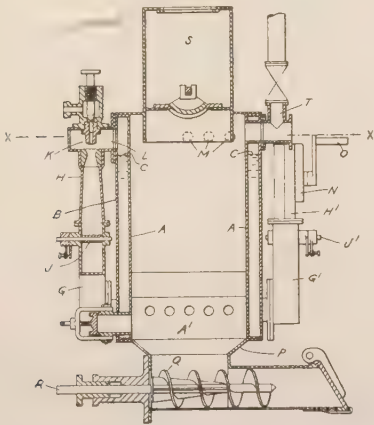
1,422,642. RUBBER GLOBE. ELIZABETH MARY WALTERS, Hove, England. Filed Nov. 1, 1920. Serial No. 421,151. 3 Claims. (Cl. 35-5.)



1. The method of producing a rubber globe for use as an educational toy consisting in the employment of a

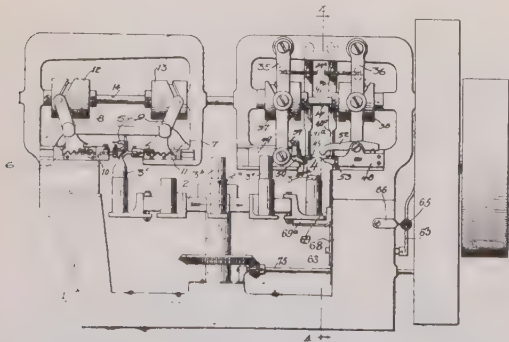
hollow air filled rubber ball, the surface of which is divided into a number of lunes, extending from pole to pole, the markings being produced by lithographic transfers in the form of paper gores corresponding to the shape of the lunes, the paper only being afterwards removed.

1,422,643. GAS PRODUCER. JOHN WELLS, Cairo, Egypt. Filed Nov. 1, 1919. Serial No. 335,079. 2 Claims. (Cl. 48—67.)



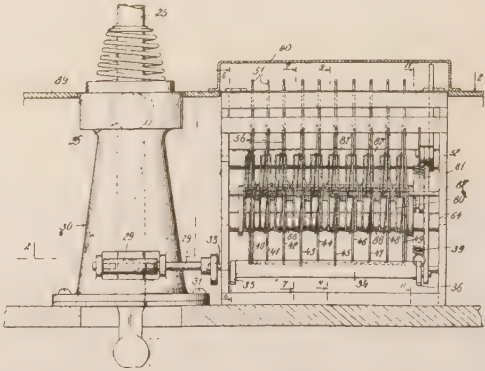
1. In a gas producer, a body comprising inner and outer shells forming a space adapted to receive water, a plurality of tubes carried at opposite sides of the body and extending through said space and terminating in the inner and outer shells, twyers mounted in said tubes, air manifolds arranged at opposite sides of the body and connected to said twyers for feeding air to the interior of the body, and means for controlling the supply of air through the twyers.

1,422,644. TUBE-CLOSING MACHINE. ISAAC W. WEPFLO, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,007. 15 Claims. (Cl. 113 1.)



1. In a collapsible tube closing and clip fastening machine, the combination with a tube carrying turntable, a cam shaft relatively timed and a folding mechanism operated from said cam shaft; of devices operated by the cam shaft and co operating to align, seat and press a clip over the fold of the tube after the clip has been loosely dropped on the tube.

1,422,645. PERMUTATION LOCK. JAMES O. WILSON, Jersey City, N. J. Filed Oct. 26, 1920. Serial No. 419,619. 31 Claims. (Cl. 70—53.)



1. In a lock of the character described, a bolt, locking tumblers therefor, connecting means between said tumblers operative to bring the tumblers to a predetermined position when the tumblers are actuated in a prearranged order, and actuating devices for the respective tumblers.

1,422,646. ANTISKID DEVICE. GEORGE D. WINTERS, Sanger, Calif. Filed Aug. 9, 1920. Serial No. 402,403. 6 Claims. (Cl. 188—4.)

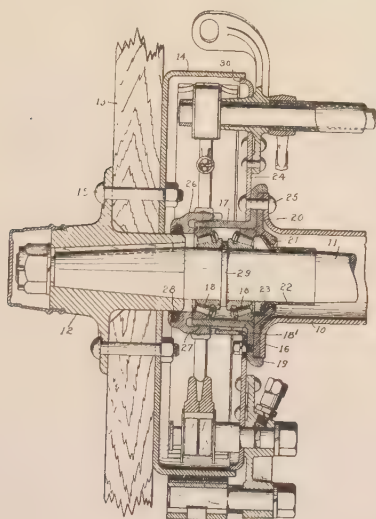


1. An anti-skid attachment for vehicles comprising a mat normally and releasably hung from the frame of the vehicle clear of the ground on each side thereof, guides fixed to the frames under each mat and projecting downwardly in the plane of the wheels, hinged extensions on the lower ends of the guides, said guides and extensions when in alinement projecting toward the point of contact of the wheels with the ground, but the extensions being normally raised out of such alinement, and means whereby when the mat is released the extensions will be simultaneously released to move in alinement with the guides.

1,422,647. AXLE. THOMAS ZIMMERMAN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 14, 1919. Serial No. 304,123. 2 Claims. (Cl. 74—56.)

1. In axle construction, the combination of an axle housing having an integral radial flange at the end, an extension having a radial flange and an axially extending

flange surrounding said housing flange, a brake anchor member mounted upon said extension in abutting relation



to one of said radial flanges, and means for securing said member and said radial flanges together.

- 1,422,648. METHOD OF PRODUCING RIM BOARDS. ALLAN A. ADAMSON, Brooklyn, N. Y., and WILLIAM F. GRUPE, Hudson Heights, N. J. Filed June 17, 1918. Serial No. 240,463. 2 Claims. (Cl. 93—40.)

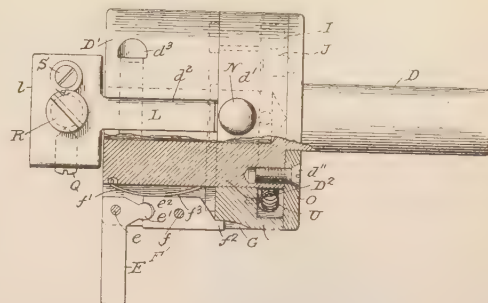


1. The method of forming built-up rectangular boxes, comprising feeding a continuous length of board in substantially flat relation, feeding a continuous length of finish paper in approximate relation to the fed flat length of board, affixing the finish paper to the board while in flat relation and providing an extension of the finish paper projecting laterally of the board length, severing the length of the board having the finish paper affixed thereto, while in flat relation and of a length equal to the perimeter of the box part, discharging the severed length of board having the finish paper affixed thereto in flat relation and thereafter folding the severed length to form the box part and affixing the extension of the finish paper to contiguous parts of the box.

- 1,422,649. SELF-OPENING KNURLING TOOL. EMMANN BACH, Woonsocket, R. I. Filed July 25, 1921. Serial No. 487,335. 5 Claims. (Cl. 80—5.1.)

5. A self-opening knurling-tool device, comprising a shank adapted to be held rigidly in the turret of a screw-machine, tiltable knurling-tool holding members carried by said shank, springs also carried by said shank and engaging said members to tilt the tool-holding ends thereof away from the work, a rotatable cam-ring carried by said shank and engageable with said tool-holding members to tilt the tool-holding ends thereof toward the work, a spring motor operatively associated with said shank and said cam-ring for moving the latter to release said tool-holding members,

a tiltable latch fulcrumed on said shank and engageable with said cam-ring to hold the same against rotation under



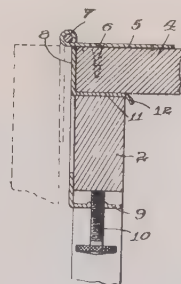
the influence of said motor, and a tripping-member pivoted to said shank and engaging said latch for tilting the same to release said cam-ring.

- 1,422,650. OVERHEAD WIRE TRANSPORT SYSTEM. WILLIAM L. BARTON, Vancouver, British Columbia, Canada, assignor of forty-five per cent to John L. Kerr, Vancouver, British Columbia, Canada. Filed Sept. 24, 1921. Serial No. 502,862. 8 Claims. (Cl. 104—112.)



3. An overhead transportation system wherein a loop of the track rope passes around a sheave at the outer end of the track and the ends are wound on separate reels of a hauling mechanism, which mechanism has provision by which the line may be wound or unwound simultaneously on or off both reels.

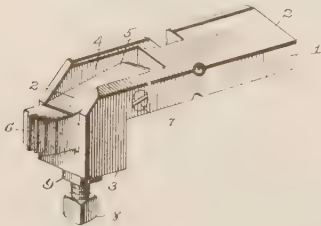
- 1,422,651. HINGE. WILLIAM C. BAXTER, Rochester, N. Y., assignor to Edward M. Trimble, doing business as The E. M. Trimble Manufacturing Company, Rochester, N. Y. Filed Jan. 22, 1921. Serial No. 439,266. 1 Claim. (Cl. 16—149.)



A hinge comprising a member provided with two spaced portions projected from one face thereof, one of said portions extending from one end of the member and the other extending from a point in spaced relation to both ends, a second member pivotally connected to the first named member at the end opposite from which the first mentioned portion projects and adapted within one extremity position to lie at right angles to the member and in space

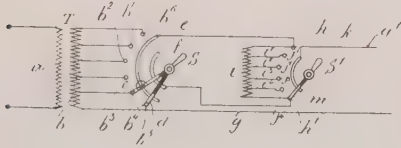
relation to the last mentioned portion, and when in another position to lie parallel with the first mentioned member, and a clamping device arranged on the portion at the end of the first mentioned member.

1,422,652. THREAD-CUTTING TOOL. NAPOLEON BENOIT, Watervliet, N. Y. Filed Sept. 6, 1919. Serial No. 322,147. 2 Claims. (Cl. 29—96.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



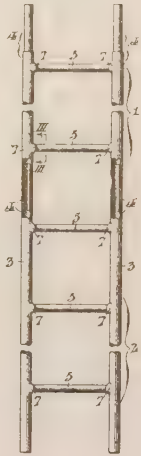
1. A thread cutting tool, including a holder formed with an angular extension, said holder and extension provided with a recess, the recess extending vertically entirely through the holder, a cutting tool formed with a plurality of cutting teeth mounted in the recess and pivotally connected to the holder and means carried by the extension for adjusting the cutting tool.

1,422,653. ELECTRICAL TRANSFORMER FOR REGULATING OR VARYING THE VOLTAGE OF THE CURRENT SUPPLIED THEREFROM. FREDERICK EDMUND BERRY, Hayes, England. Filed Dec. 27, 1918. Serial No. 268,506. 1 Claim. (Cl. 171—119.)



In an electrical transformer, the combination with one of the secondary windings of said transformer provided at intervals along its length with leads dividing said winding into sections, and a supply conductor connected to one end of said winding, of voltage regulating means comprising consecutively arranged stationary terminal contacts connected to said leads and arranged in a substantially common plane, two insulated stationary segmental contacts also in a substantially common plane, two movable switch arms insulated from each other and constantly bearing on the respective segmental contacts and adapted to simultaneously bear against any two adjacent terminal contacts so as to connect the interposed section of the winding across the segmental contacts, an auto-transformer winding having its ends connected across said segmental contacts, a series of insulated terminal contacts connected to the ends and to intermediate portions of the auto-transformer winding, and a supplementary movable switch arm in constant electrical connection with a second supply conductor and adapted to be brought into connection with any of the terminal contacts connected to the winding of the auto-transformer, substantially as described.

1,422,654. LADDER AND PROCESS OF MANUFACTURING THE SAME. WALTER A. BILGER and ALAN C. WALKER, Philadelphia, Pa., assignors to The American Pulley Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 20, 1921. Serial No. 471,185. 6 Claims. (Cl. 228—55.)



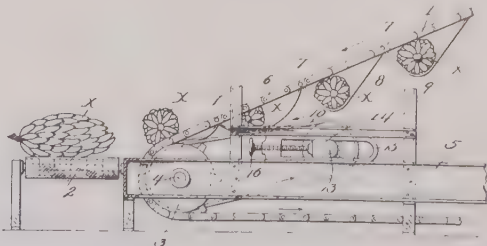
1. A metallic ladder comprising tubular side rails, each provided at intervals with pairs of spaced integrally formed lips, projecting outward, and a series of tubular rungs respectively inserted into the tubular rails between opposed pairs of lips and welded thereto.

1,422,655. BEARING AND METHOD OF MAKING SAME. WILLIAM G. H. BREHMER, Cleveland, Ohio, assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 2, 1920. Serial No. 407,766. 9 Claims. (Cl. 29—149.5.)



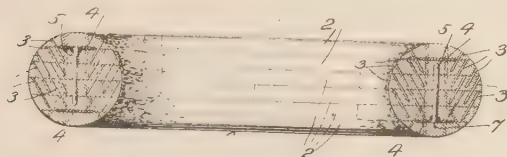
1. In a method of making bushings, the steps which consist in extruding a cylindrical tube provided with a series of longitudinally extending grooves, and then filling such grooves with a lubricant.

1,422,656. BANANA UNLOADER. JAMES BRENNAN, New Orleans, La. Filed Aug. 5, 1921. Serial No. 490,030. 5 Claims. (Cl. .98—185.)



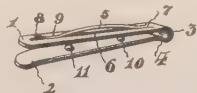
1. In an unloading apparatus of the class having a travelling conveyer provided with depending pockets to contain articles, a travelling member operating adjacent to the conveyer and gradually engaging the pockets thereof while the conveyer advances to thus lift articles contained in the pockets.

- 1,422,657. LIFE RAFT. HARRY W. BROADY, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,691. 5 Claims. (Cl. 9—11.)



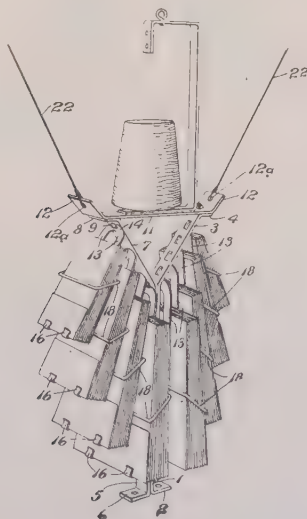
1. A raft composed of a series of layers of light pithy wood which has been treated to make the same waterproof, said layers being connected together by dowels suitably driven into said layers in wedging relationship to hold the same together and a series of reinforcing plates embedded in said light pithy wood between adjacent layers thereof.

- 1,422,658. NECKTIE RETAINER. LLOYD B. BROOKS, Philadelphia, Pa., assignor to George K. Thorman, Joseph W. Lassen, Leon C. Heller, and Lloyd B. Brooks, Copartners, trading as Stay-Rite Mfg. Co., Philadelphia, Pa. Filed Aug. 21, 1920. Serial No. 404,984. 5 Claims. (Cl. 24—85.)



3. A shirt-front necktie retainer comprising a pair of slightly divergent overlapping resilient leaves with an attenuated crotch at their junction adapted to wedge upon and grip a shirt-front edge, and a fine, springy, flexible, necktie-piercing and retaining pin with its shank anchored to one of said leaves near one end thereof and its point free and extending forward and outward from near the free end of said leaf.

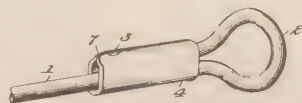
- 1,422,659. BAG HOLDER. ELVAH O. BULMAN, Grand Rapids, Mich. Filed Feb. 28, 1921. Serial No. 448,714. 8 Claims. (Cl. 211—2.)



1. In combination, a support comprising two bars located against each other and formed at their lower ends with oppositely located out-turned foot portions and at their upper ends with portions bent outwardly and up-

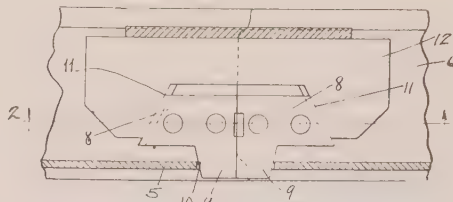
wardly at an angle to the vertical and away from each other, each of said last mentioned portions terminating in horizontal end parts, and each being formed in length with a plurality of spaced apart outwardly struck tongues, bolts passing through the two bars to detachably connect the same together, a horizontal bar formed at its ends with outwardly and upwardly turned portions connected detachably to the upper ends of the first bars, and bag holders detachably suspended one from each tongue substantially as described.

- 1,422,660. LOOP-FORMING TERMINAL CLAMP. GEORGE P. BUMP, La Crosse, Wis. Filed Apr. 15, 1920. Serial No. 553,102. 4 Claims. (Cl. 24—129.)



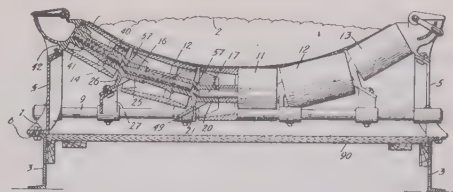
1. A terminal clip or clamp comprising a tube to be slipped along a wire bent upon itself to form a loop; said tube having an open slot at one end into which the free end of said wire may be bent laterally, and the ends of the slot walls at the open end of the slot being constructed to be closed inwardly behind said laterally bent end to lock it in place.

- 1,422,661. DEMOUNTABLE VEHICLE WHEEL RIM. HARRY E. BUTCHER, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 30, 1917. Serial No. 199,224. 4 Claims. (Cl. 301—15.)



1. The combination of a wheel; a demountable rim therefor of the transversely split type; a stop on said rim adapted to locate said rim thereon; a transversely movable plate adapted to be inserted between said rim and wheel so as to support the former in spaced relation to the latter, said plate being formed to laterally engage said rim to force the same against said stop and also being formed to engage the ends of said rim and draw them together; and other interengaging means on said wheel and rim-ends, respectively, adapted to draw them together.

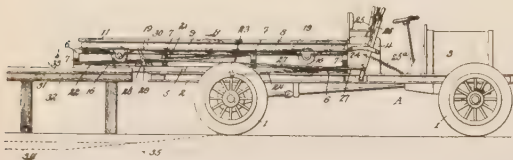
- 1,422,662. TROUGHING PULLEY FOR BELT CONVEYERS. FRANS IVAR L. BYLGER, Jersey City, N. J. Filed June 3, 1919. Serial No. 301,486. 25 Claims. (Cl. 198—192.)



23. A supporting bracket for adjacent belt supporting pulleys, having an inclined web extending between the pulleys and shaped so as to deflect the dust passing from one pulley away from the adjacent pulley.

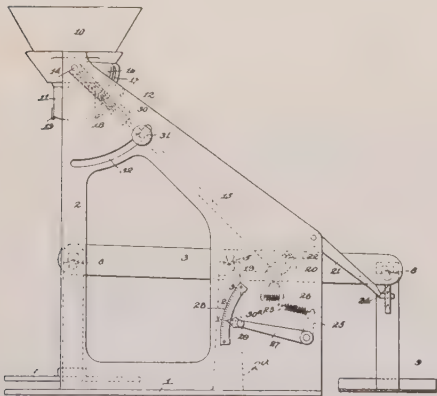
25. In a conveyer belt support, spaced bearings, a shaft mounted therein, a pulley having a tapering hub mounted on said shaft and extending between said bearings, the diameter of the smaller end of the hub being less than the diameter of the bearing adjacent thereto, and the diameter of the larger end of said hub being greater than the diameter of the bearing adjacent thereto.

1,422,663. LOADING AND UNLOADING MEANS AND PORTABLE BODY FOR TRUCKS. ABNER F. CALLISON, Buffalo Creek, Colo. Filed Dec. 24, 1920. Serial No. 432,982. 17 Claims. (Cl. 214—38.)



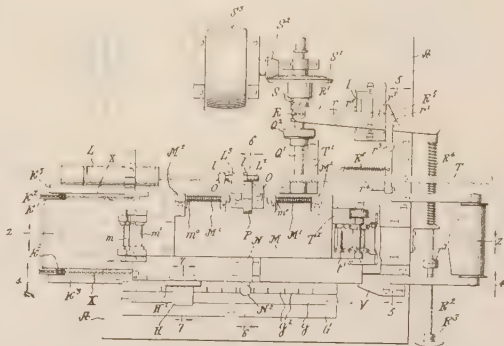
1. A removable-body truck comprising a vehicle, and a removable body carried thereby, in combination with a track or support for the removable body, and a depressed runway for the vehicle below the track, whereby the body is automatically lifted from the vehicle by the support when the vehicle is progressively moved along the runway.

1,422,664. AUTOMATIC SCALE. HUGH CAMERON, Newark, N. J., assignor to Robert D. Kent, Passaic, N. J. Filed Nov. 15, 1919. Serial No. 338,308. 24 Claims. (Cl. 249—1.)



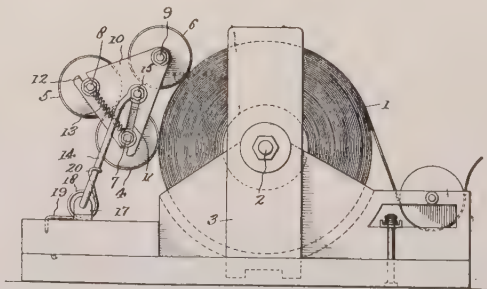
22. A scale comprising a frame, a beam pivoted in the frame, a tray carried by the beam at one side of the pivot, a weight carried by the beam at the opposite side of the pivot, a chute for delivering material to be weighed to the tray, a pivoted valve cooperating with the chute, an arm adapted to pivot with the valve, a lever pivoted to the frame, said lever engaging beneath the beam at the weight side of the beam pivot when the beam is in the inert position, said arm engaging the lever to lock the valve in open position, a spring for withdrawing the lever from engagement with the arm to release the valve, means for adjusting the tension of the spring, means independent of the beam for closing the valve, and a stop for limiting the movement of the valve.

1,422,665. FILM-TESTING MACHINE. GASTON LOUIS CHANIER, Jersey City, N. J., assignor to Pathe Exchange, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1921. Serial No. 490,054. 34 Claims. (Cl. 95—75.)



33. Apparatus of the character described, comprising an electric light, and an electric circuit therefor, a partition with a light aperture therein, means for passing the negative film and the positive film to be printed in superposed relation past said aperture, and means controlled by said last mentioned means for varying the intensity of the light passing through said aperture, comprising a series of resistance coils included in the electric circuit, and a bridge moving with said films and closing the electric circuit successively through said resistance coils.

1,422,666. TAPE OR WEB PRINTING MACHINE. OWEN LEE CHESNUTT, Atlanta, Ga. Filed Apr. 18, 1921. Serial No. 462,317. 4 Claims. (Cl. 101—213.)

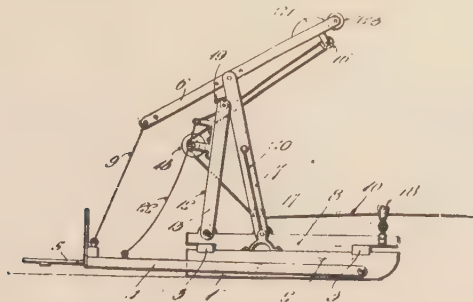


1. In combination, a stand, a paper roll supported in the stand, a bracket affixed to the stand, a drum journaled in the bracket over which the paper web is led from the roll, printing and blotting rollers bearing on the web as it passes over the surface of said drum, an inking roller in contact with said printing roller, and means for supporting and yieldingly urging said printing and blotting rollers against the web, substantially as described.

1,422,667. HAYSTACKER. JOSEPH FRANK CHLADEK, Niobrara, Nebr. Filed Jan. 27, 1921. Serial No. 440,436. 9 Claims. (Cl. 214—131.)

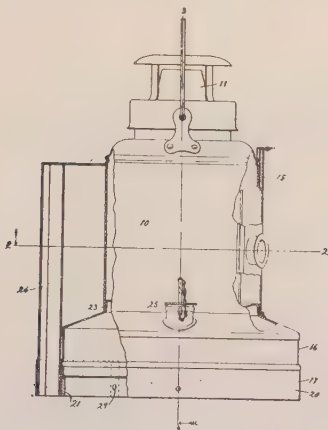
1. A device of the class described comprising a base, a swinging standard mounted thereon, a rocking beam carried by the standard, a load-carrier having connection with said beam, and means for first acting on the latter and

moving it approximately through a half circle so that it will assume a predetermined vertical position without af-



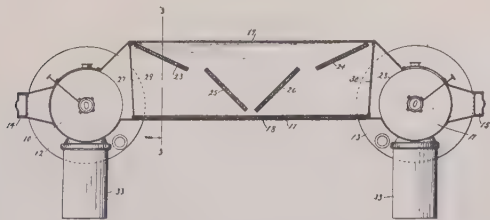
fecting a movement of the standard, said means serving then to swing the standard and beam as a unit toward the discharge end of the device.

1,422,668. SIGNAL LAMP. CHRISTIAN A. CHRISTOFFERSON, St. Paul, Minn. Filed Sept. 30, 1919. Serial No. 327,487. 5 Claims. (Cl. 240—22.)



1. In a signal lamp, a font comprising a cup having an exterior bead, a composite supporting ring surrounding said cup and comprising inner and outer rings secured together, the outer ring extending above the inner ring, said exterior bead resting upon the top edge of the outer ring and the lower corner of the cup resting upon the top edge of the inner ring.

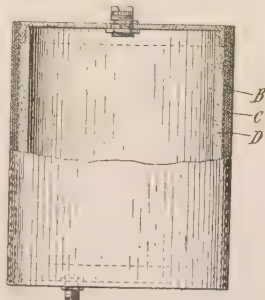
1,422,669. ILLUMINATED SIGNAL. CHRISTIAN A. CHRISTOFFERSON, St. Paul, Minn. Filed Mar. 31, 1921. Serial No. 457,281. 2 Claims. (Cl. 40—132.)



1. A signal comprising, in combination, a casing, a lamp at each end of said casing adapted to illuminate its interior, a signal in the front of said casing out of range of the direct rays from said lamp and comprising a plurality of diaphanous characters, a plurality of reflectors in the

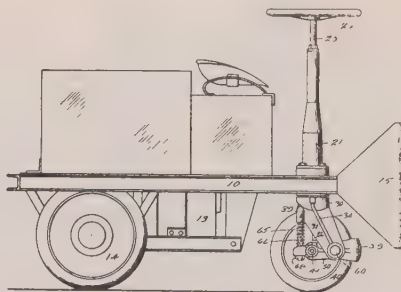
casing each arranged to receive the direct rays from one of said lamps and to reflect such rays upon one of the signal characters, and signals separate from said first-named signal, each illuminated by direct rays from one of said lamps.

1,422,670. RECEPTACLE, FLEXIBLE CONDUIT, GAS MASK, AND THE LIKE. CHARLES ANGUS CLEGHORN, Bedfordshire, England, assignor to The Gayner Pneumatic Company, Limited, London, England. Filed Dec. 26, 1918. Serial No. 268,429. 19 Claims. (Cl. 154—46.)



1. A petrol-container made of a substance which as normally employed would be attacked by the petrol but which is coated with Turkish birdlime, to prevent such attack, substantially as described.

1,422,671. SPRING STEERING FORK FOR WHEELED VEHICLES. CLYDE E. COCHRAN, Cleveland, Ohio, assignor to The Elwell-Parker Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 27, 1919. Serial No. 279,516. 8 Claims. (Cl. 280—92.)

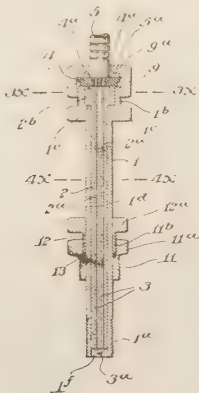


2. The combination of a bifurcated member, means for guiding and turning it, a yoke having a pair of arms and a connecting portion, a wheel mounted on an intermediate portion of the yoke between the arms thereof, said yoke arms being pivoted to the bifurcated member on one side of the wheel axis, there being extensions of the yoke on the other side of the wheel axis, pins extending downwardly from the bifurcated member and rigidly carried thereby, and passing freely through the extensions of the yoke and having stops on their lower ends.

1,422,672. THERMOCOUPLE. THOMAS G. COGHLAN, Wellsburg, W. Va. Filed Mar. 9, 1921. Serial No. 451,025. 8 Claims. (Cl. 171—73.)

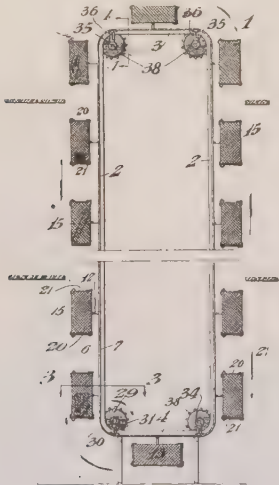
1. A thermo-couple comprising different metals forming a union and means comprising an open chamber for

housing said union so as to permit its exposure to heat transfer from gaseous products of combustion and prevent



its ignition of an unexploded fluid adapted for providing such gaseous products.

1,422,673. PARCEL AND PACKAGE ELEVATOR OR CARRIER. JAMES COLLINS, Lancaster, Pa. Filed July 1, 1921. Serial No. 481,806. 9 Claims. (Cl. 198—129.)

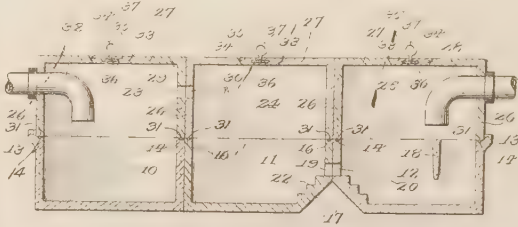


1. In a device of the character stated, a lower driving shaft, outer sprocket wheels fast thereon, inner idler sprocket wheels loose on said shaft, an outer endless apron driven by said outer sprocket wheels, an inner endless apron in mesh with said idler sprocket wheels upper sprocket wheels for said aprons, bars secured at intervals to one of said endless aprons, and baskets secured to said bars.

1,422,674. SETTLING AND SEPTIC TANK. EDWARD F. COOK, Freeport, N. Y. Filed Mar. 21, 1922. Serial No. 545,412. 2 Claims. (Cl. 210—6.)

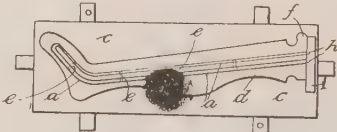
1. A septic tank for sewage comprising a plurality of tanks, a cover for each tank, communication between two adjacent tanks, through the covers thereof, a baffle in one of the tanks for receiving sewage thereagainst and for

breakage thereof, a rising series of solids breaking means leading to the first communication, a descending series of solids breaking means leading from the first com-



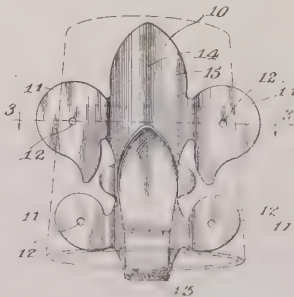
munication, means for conveying liquids from the device, and means for leading sewage to the device and discharging same against the said baffle.

1,422,675. MEANS FOR MANUFACTURING CASTINGS FOR SHAPING AND DRYING HOSIERY. ALBERT EDWARD COTTOM, East Brunswick, near Melbourne, Victoria, Australia. Filed Apr. 26, 1921. Serial No. 464,531. 1 Claim. (Cl. 22—124.)



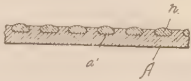
A mould for the purposes specified having a steam passage formed by shaped piping therein, means at the top of the mould providing a pathway transverse to the ends of the pipe, the ends of the pipe being also at the top of the mould and leading into the pathway substantially as described.

1,422,676. DRINKING-GLASS HOLDER. BOLESŁAW V. CZARNECKI, Schenectady, N. Y. Filed Mar. 11, 1922. Serial No. 542,967. 2 Claims. (Cl. 248—22.)



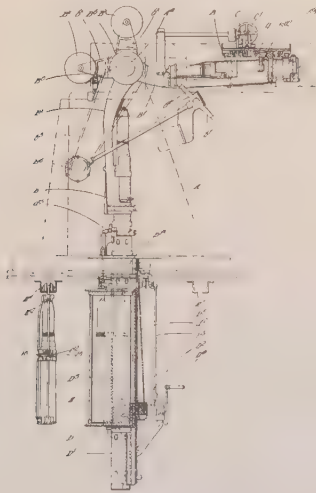
1. A holder for containers of the class described comprising a body portion having means permitting the holder to be secured to a support, a spring finger on said body portion adapted to project into a container and to clamp the wall of the container, said body portion being transversely curved to form a depression in alignment with said finger affording a seat for a portion of the container, the finger clamping the container in said seat, said finger being longitudinally curved so as to engage the container wall over but a limited area.

1,422,677. METHOD OF MANUFACTURING COMPOSITE ARTICLES FOR BEARINGS OR OTHER PURPOSES. ERNEST G. DANN, Cleveland, Ohio, assignor to The Dann Products Company, a Corporation of Ohio. Filed Jan. 9, 1918, Serial No. 211,094. Renewed Nov. 10, 1919. Serial No. 337,111. 8 Claims. (Cl. 64—19.)



1. Method of providing a metal body with a friction reducing surface which consists in forming a plurality of non-communicating under-cut cavities in the surface of the metal body by application of an acid thereto, and filling said cavities with a solid adherent lubricant.

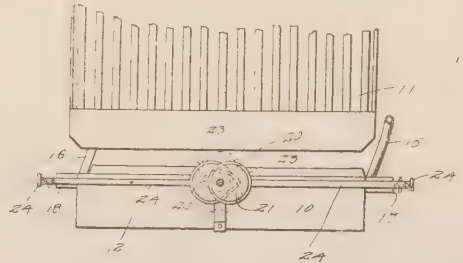
1,422,678. AMMUNITION HOISTING AND LOADING APPARATUS FOR ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Oct. 26, 1921. Serial No. 510,654. 40 Claims. (Cl. 89—46.)



15. In ammunition hoisting and loading apparatus for ordnance, the combination of a lifting tray for raising ammunition to a position contiguous to the breech end of the gun, means for pivoting said tray so that it can move at the side of the gun about an axis transverse to the gun from a substantially vertical receiving position into a transferring position substantially parallel to the axis of the gun, a transversely movable loading tray for conveying ammunition from said lifting tray, when the latter occupies its transferring position, into a loading position in line with the bore of the gun for ramming therein, a withdrawing device on said loading tray for engaging with the ammunition in the lifting tray and withdrawing it therefrom during the movement of said loading tray towards the loading position, a curved plate carried by part of the gun cradle said plate, when the loading tray occupies its loading position, serving to bridge a gap formed in the loading tray for enabling the latter to embrace the ammunition in the lifting tray when the loading tray occupies the receiving position with said withdrawing device in position for withdrawing the

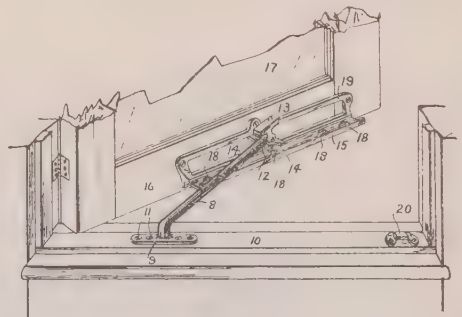
ammunition from the lifting tray, means for pivoting said plate about an axis parallel to the axis of the gun, and a spring controlling said plate.

1,422,679. DRAINAGE TANK FOR AUTOMOBILE RADIATORS. WILLIAM H. DAY, Lockport, N. Y. Filed Oct. 1, 1920. Serial No. 414,149. 3 Claims. (Cl. 123—174.)



1. In combination with a water circulating means of an internal combustion engine, a drainage tank for the water in said means, said tank having inner and outer sections to provide a heat insulated space around the innermost section, a tube extending through said sections and beyond the outer section, a conduit leading from said means to said tubes, a valve operable in said tube, and means to operate said valve engageable therewith through the outer end of said tube.

1,422,680. STAY FOR CASEMENT WINDOWS. DONALD DONALD, Sydney, New South Wales, Australia. Filed July 14, 1921. Serial No. 484,598. 3 Claims. (Cl. 292—271.)

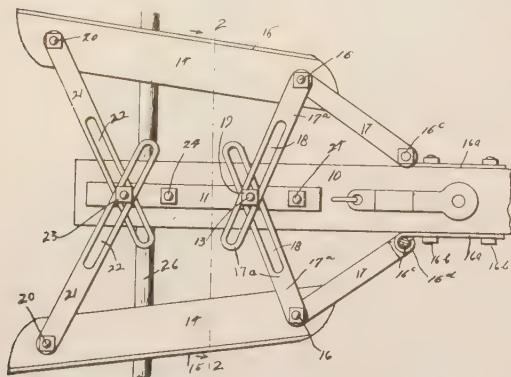


1. An improved stay for casement windows comprising an arm loosely pivoted at one end to a bracket adapted to be secured to the window frame and having at its free end a projecting tongue, a pair of laterally projecting lugs, and an operating handle; a channel-way having a plurality of holes therein and a raised back rail adapted to be secured to the casement window; and a bevelled catch member adapted to be secured to the window frame substantially as and for the purpose herein set out.

1,422,681. ADJUSTABLE REPAIR TONGUE HOUND. FRANK J. DULTMEIER, Manning, Iowa. Filed July 6, 1920. Serial No. 394,315. 2 Claims. (Cl. 278—43.)

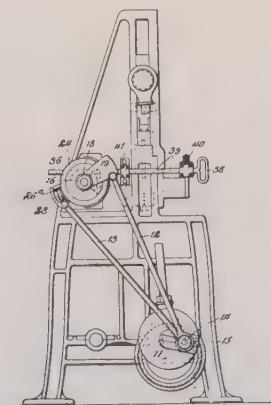
1. The combination of a tongue having flat top and bottom surfaces with bars resting on said top and bottom surfaces and fastened to said tongue, screw-threaded members secured to said plates against rotation, and extending upwardly from the top bar and downwardly from the lower bar, spaced hound members, a pair of links pivoted to the forward end of each hound member,

one member of each pair of links being adjustably mounted on the forward bolt of the upper bar, and the other member of each pair being mounted on the forward bolt of the lower bar, means for fastening said links on said bolts against movement, a pair of links pivoted to the



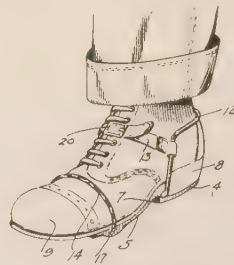
rear end of each hound member, one member of each of said latter pairs of links being adjustably mounted on the rear upper bolt, and the other member of each of said latter pairs being adjustably mounted on the rear lower bolt, and means for securing said rear links rigidly to said rear bolts.

1,422,682. MECHANICAL MOVEMENT. JOHN GUSTAV EKLUND, St. Joseph, Mich., assignor to St. Joseph Iron Works, St. Joseph, Mich. Filed Sept. 30, 1920. Serial No. 413,854. 15 Claims. (Cl. 74—54.)



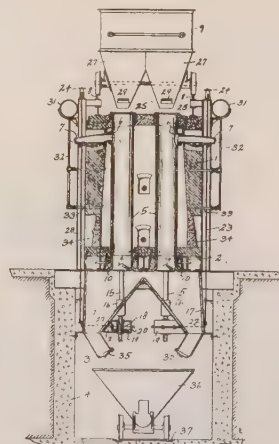
1. A mechanical movement including a driving shaft, a driven shaft, a pair of ratchet wheels secured to the driven shaft, said ratchet wheels having their teeth extending in opposite directions, a pair of pawls interposed between the ratchet wheels and driving shaft whereby the latter is connected to either ratchet wheel to turn the same, manually operated means mounted on the driven shaft for disconnecting either pawl from its respective ratchet or both pawls from both ratchets, whereby either ratchet may be turned or both ratchets may remain idle and means for adjusting or varying the extent to which either ratchet wheel is turned by each stroke transmitted from the driving shaft.

1,422,683. BOOT PROTECTOR. JOHN N. ELTGROTH, Fairmont, Minn. Filed Nov. 12, 1921. Serial No. 514,605. 6 Claims. (Cl. 36—63.)



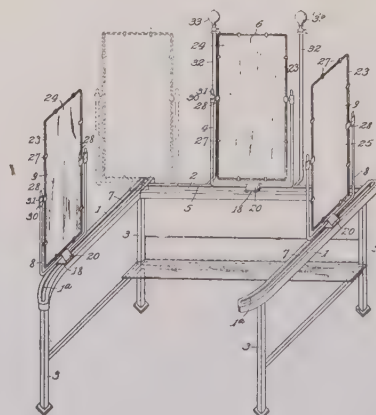
1. A boot protector having a sole plate provided with a heel-engaging shoulder, a toe bail attached to the sole plate, and a heel bail pivoted to the sole plate.

1,422,684. VERTICAL SMELTING FURNACE. FERDINAND FIECHTL, Cherryvale, Kans. Filed Jan. 28, 1921. Serial No. 440,761. 1 Claim. (Cl. 266—19.)



In a smelting furnace, vertical retorts, removable covers therefor, movable bottoms for the retorts, a manual mechanism operatively connected to each bottom through the manipulation of which it may be opened or closed, and means for introducing air under compression into the furnace around the retorts.

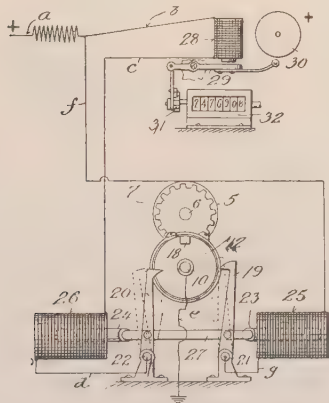
1,422,685. MIRROR STRUCTURE. CHARLES LEE FITCHET, San Francisco, Calif. Filed June 5, 1920. Serial No. 386,727. 9 Claims. (Cl. 45—99.)



1. A mirror structure comprising a frame formed to provide a partial enclosure for the person of the user,

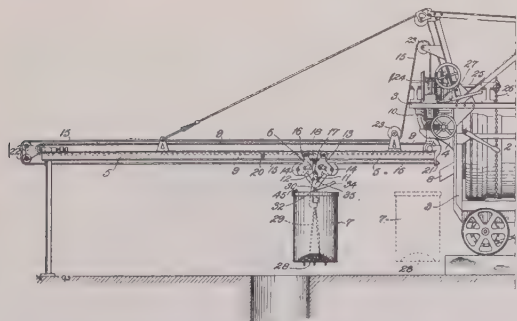
parts of said enclosing frame being shaped to form trackways, carriages movable along said trackways, each carriage having pivotally related trucks providing for free travel thereof throughout its trackway, each carriage embodying a part rotatable on a vertical axis, and a mirror carried by said rotatable part.

1,422,686. FARE-RECORDING APPARATUS. PARIS R. FORMAN, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed July 22, 1919. Serial No. 312,532. 14 Claims. (Cl. 235—45.)



4. In a fare registering apparatus, the combination with a registering mechanism, a signal device, and electrically operated means to actuate the same, and contact devices to control the circuit of said signal actuating means, of relatively separable yieldingly connected devices operated by the registering mechanism for controlling said contacts.

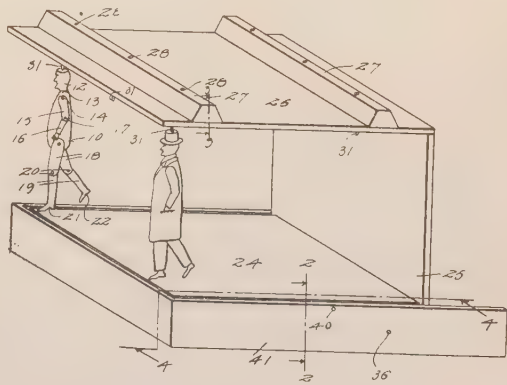
1,422,687. APPARATUS FOR CONVEYING AND DELIVERING MATERIAL. DONALD FRASER and SAMUEL SHAFER, Jr., Milwaukee, and CHRISTOPHER W. LEVALLEY, deceased, late of Milwaukee, Wis., by Helen P. Levalley, Milwaukee, Wis., and Wisconsin Trust Company, a Corporation of Milwaukee, Wis., executors, assignors to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 6, 1920. Serial No. 349,777. 12 Claims. (Cl. 212—79.)



1. The combination of a track, a carriage arranged to traverse the track, a bucket capable of being discharged

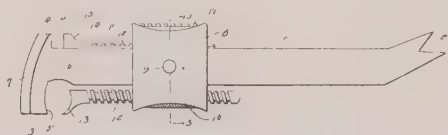
suspended from the carriage, means for causing the carriage to traverse the track, means for controlling the raising and lowering of the bucket relative to the carriage and means for causing the discharge of the bucket while suspended, at any position within the range of vertical movement of the bucket, over the desired place of deposit, operated by the means that control the raising and lowering thereof.

1,422,688. AMUSEMENT DEVICE. JOSEPH D. FROMAN, Vevay, Ind. Filed Dec. 8, 1920. Serial No. 429,130. 3 Claims. (Cl. 46—40.)



1. A toy consisting of an articulate figure, means to suspend said figure, an inherently rigid platform, means to pivotally mount said platform, and means to bodily rock said platform on its pivot for cooperation with the figure to impart simulative dancing movement thereto.

1,422,689. COMBINATION WRENCH. EVERETT W. FUNK, Columbus, Ohio. Filed July 29, 1921. Serial No. 488,320. 1 Claim. (Cl. 81—100.)

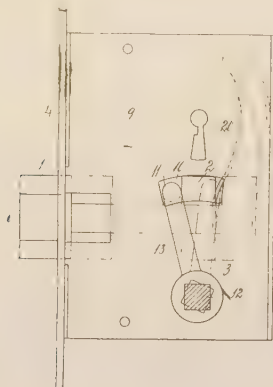


A wrench comprising a shank oppositely arranged stationary jaws formed on said shank and one of said jaws having an arcuate active face, and the other jaw having a straight active face, a housing secured to said shank, stems having feed threads slidably received by the housing and extending parallel with the shank, movable jaws carried by said stems, and one of said jaws having an arcuate active face and the other movable jaw having a straight active face, feed nuts journaled to said housing and engaging the stems for actuating the movable jaws, said housing having cut-away portions to expose the adjusting nuts, said shank having a portion arcuately curved to cooperate with the arcuate active faces of the stationary and movable jaws.

1,422,690. DOOR LOCK. ADOLF GABLENZ, Lubeck, Germany. Filed Dec. 11, 1920. Serial No. 430,036. 4 Claims. (Cl. 70—29.)

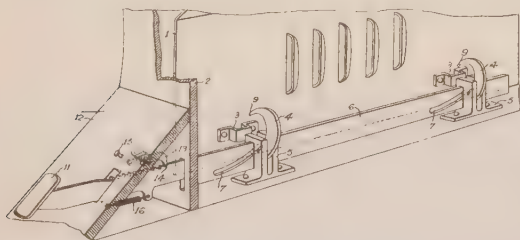
1. A latch bolt having at one end an enlarged head with side flanges with an intermediate beveled face

whereby the bolt may serve either as a right or left hand one, and at the other end a cross bar, guides for said



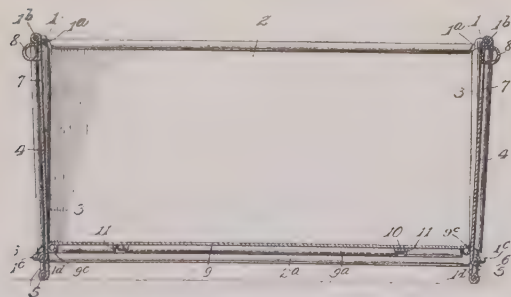
cross bar, a knob spindle, and a lever rigidly mounted thereon and having a removable head permitting the bolt to be removed and reversed.

1,422,691. HOOD FASTENER. HENRY B. GAPE, Detroit, Mich. Filed June 18, 1920. Serial No. 390,011. 4 Claims. (Cl. 292—111.)



1. A locking device for an automobile hood comprising a bar mounted for longitudinal movement, a bracket guiding the movement of the bar, a hooked cam member pivotally mounted on the bracket with a portion of the cam member engaging a cam surface on the bar, and another portion of the cam member adapted to engage a movable member to hold it in locked position.

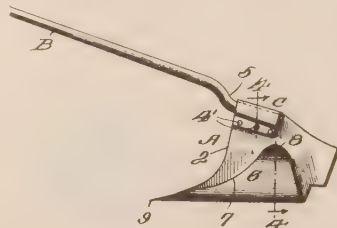
1,422,692. COLLAPSIBLE BOX. NATHAN ALLEN GIBBONS, Martins Ferry, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va., a Corporation of West Virginia. Filed July 11, 1921. Serial No. 483,777. 8 Claims. (Cl. 220—6.)



1. A collapsible sheet-metal box comprising wire frames of substantially rectangular form, side panels having their ends attached to the side members of said frames, and panels depending from the upper horizontal members

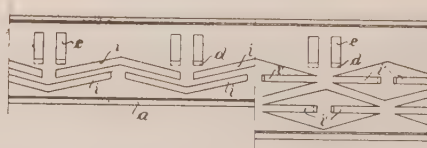
of said frames and having their lower ends extending below the lower members of said frames to form feet, a bottom having hinge-like connection with the lower portion of one of said side panels, and means formed on the opposite side panel for supporting the free lateral edges of said bottom.

1,422,693. LAWN EDGER. BENJAMIN C. GOCHENOUR, Spokane, Wash. Filed May 31, 1921. Serial No. 473,748. 3 Claims. (Cl. 97—28.)



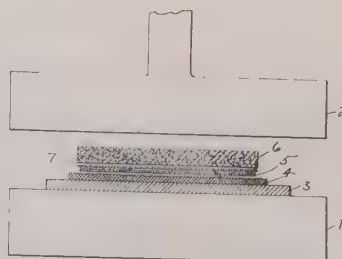
2. A lawn edger comprising a handle and a blade member, the blade member having a trough-shaped bottom and upwardly extending side walls, the front edges of the side walls sharpened, one side wall provided at its top edge with a handle receiving socket and at its rear edge with a flat extension in the same plane as the side wall to form a shovel, for the purpose described.

1,422,694. ROLLED IRON BAR. HEINRICH GOCKEL, Neuwied-on-the-Rhine, Germany. Filed Aug. 21, 1919. Serial No. 319,042. 3 Claims. (Cl. 72—109.)



1. An iron bar provided with a body portion slitted upon angular lines with the slits alternately disposed, and overlapped and arranged in rows inclined to the longitudinal axis of the bar.

1,422,695. METHOD OF FORMING CELLULOID PRINTING PLATES. FREDERICK C. GOLDENBAUM, Kearny, N. J., assignor to International Printing Plate Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 31, 1920. Serial No. 407,280. 6 Claims. (Cl. 18—51.)



1. That method of forming a printing plate which consists in pressing a body of material rendered plastic by heat, between a mold heated to a temperature sufficient to render the material plastic, and a yieldable body of similar material.

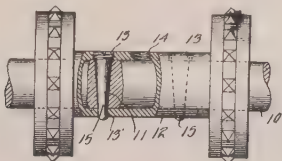
1,422,696. SYSTEM OF KEEPING NOTES. CHARLES H. GOODYEAR, Cedar Rapids, Iowa, assignor to Missouri Paper Products Company, St. Joseph, Mo., a Corporation of Missouri. Filed Oct. 29, 1917. Serial No. 198,949. 7 Claims. (Cl. 129—1.)



1. In a device of the class described, the combination, of two sections of paper, each of which is formed of a plurality of sheets of paper folded across the center thereof, a cord extended along the inner surface of the fold of each section and across the edges of both sections at the top and bottom thereof, the ends of said cord being tied together.

7. In a device of the class described, the combination, with a plurality of units and a plurality of process tabs, each of said units and tabs being composed of a plurality of sheets bound together, and each process tab being associated with a corresponding unit, of a binder in which the units may be permanently bound after they have been detached from their corresponding process tabs, and means for fastening said units in said binder.

1,422,697. WHEEL-SECURING DEVICE. EDWIN B. GRACE, Memphis, Tenn., assignor of one-half to Gordon Erskine, Memphis, Tenn. Original application filed Apr. 24, 1918, Serial No. 230,436. Divided and this application filed Feb. 18, 1921. Serial No. 446,132. 9 Claims. (Cl. 287—52.)



1. A hub having a sprocket at each end and means for attaching the same to a shaft comprising pairs of diametrically opposed openings in the hub one opening of each pair having screw-threads, substantially as set forth.

1,422,698. KINDLING DEVICE. HANS GROSSMANN, Zurich, Switzerland. Filed June 27, 1921. Serial No. 480,831. 6 Claims. (Cl. 44—42.)

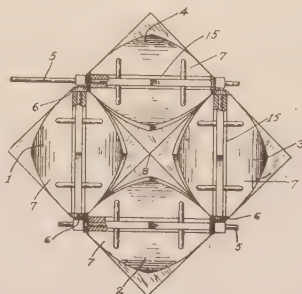


1. A match substitute, comprising a pellet having a core and an ignition coating, said core comprising a mixture of a combustible substance and a porous substance capable of leaving a form retaining skeleton after burning.

1,422,699. PROCESS OF PRODUCING PHOSPHORIC ACID. ERNEST W. GUERNSEY and JEW YAM YEE, Washington, D. C. Filed June 28, 1921. Serial No. 481,082. 6 Claims. (Cl. 23—1.)

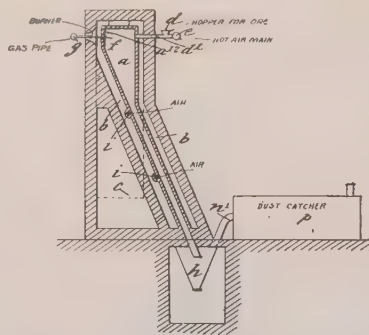
4. The process of making phosphoric acid, comprising forming an intimate mixture of phosphate rock, silicious material and carbonaceous material in such proportions that the molecular ratio of the combined CaO to the silica will be 1:1, forming the material so mixed into briquettes, heating the briquettes at a temperature not to exceed incipient clinkering until all the phosphorus has been expelled, forming oxides of the expelled phosphorus and recovering such oxides.

1,422,700. WATER-POWER APPARATUS. JOHN G. HACKING, Detroit, Mich., assignor of one-half to Walter Gudith, Detroit, Mich. Filed Nov. 20, 1920. Serial No. 425,306. 7 Claims. (Cl. 253—136.)



1. The combination with three or more wheels having complementary interfitting buckets rotatable through adjacent paths, of means for directing a moving fluid upon the apices of said buckets.

1,422,701. ROASTING COMPLEX ZINC SULPHIDE ORES OR THE LIKE. FRANK WILLIAM HARBORD, London, England. Filed Feb. 13, 1919. Serial No. 276,807. 7 Claims. (Cl. 75—17.)

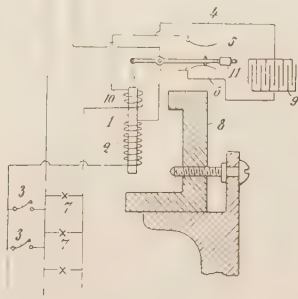


1. A process of roasting complex zinc sulphide ores or concentrates or zinc blends which consists in injecting the finely subdivided material by a blast of air against a surface within an externally heated muffle chamber which surface is heated to such a temperature as will partially roast the material at the part to the chamber where the injection occurs and then causing the material to travel within the chamber to complete the desired degree of roasting, substantially as and for the purpose set forth.

1,422,702. RETARDED ELECTROMAGNETIC SWITCH. ANDREAS MARIUS HASLEV, Randers, Denmark. Filed May 27, 1919. Serial No. 300,194. 1 Claim. (Cl. 200—97.)

In a device of the class described, an operating circuit comprising a relay coil and a stationary contact, a light-

ing circuit comprising a relay coil and a stationary contact, said coils being mounted in alinement and a core movable therein, a counterbalanced lever connected to said core and adapted to engage either contact and close the



circuit therethrough, and an adjustable permanent magnet mounted below and in alinement with said core and adapted to hold said core in one position under predetermined conditions.

1,422,703. PROCESS FOR THE MANUFACTURE OF CHROMIC OXIDE AND SODIUM SULPHIDE FROM SODIUM CHROMATE. CASIMIR JAMES HEAD, London, England. Filed Jan. 14, 1921. Serial No. 437,158. 1 Claim. (Cl. 23—13.)

A process for the preparation of sulphur free chromic oxide (Cr_2O_3) and sodium sulphide (Na_2S) from sodium chromate (Na_2CrO_4) comprising mixing five parts of carbon (5C) two parts of sulphur (2S) with two parts of sodium chromate ($2\text{Na}_2\text{CrO}_4$) so as to produce a mixture of correct molecular proportions to produce the desired result, heating the mixture to a dull red heat in a closed chamber until the reaction is completed, treating the residue with water to dissolve the sodium sulphide (Na_2S), separating the insoluble chromic oxide (Cr_2O_3) from the solution, washing, drying, calcining and treating the said chromic oxide (Cr_2O_3) to suitably purify it and prepare it for use substantially as described.

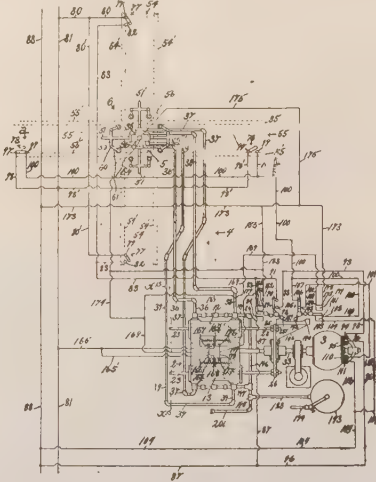
1,422,704. OIL-WELL PACKER. CHARLES M. HEETER, Butler, Pa. Filed Sept. 26, 1918. Serial No. 255,765. 4 Claims. (Cl. 166—10.)



1. A well packer, comprising a casing, a tube telescopically mounted with respect to said casing, a flexible packing member surrounding said tube, flanged means detachably secured to said casing for supporting the lower end of said packing member, said flanged means being dis-

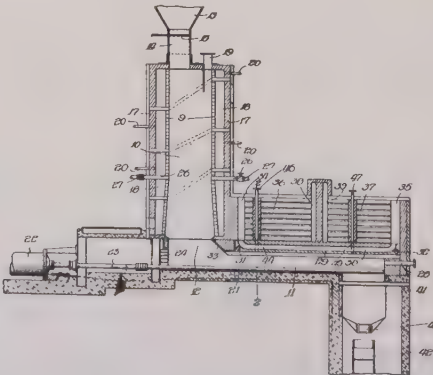
connected from said tube to permit movement of the tube therethrough, expanding means on said tube for expanding said packing member when the tube is moved through said flanged member into the casing, and a frangible connection between said tube and said casing permitting the tube to be removed without removing the packing member in case the packing should stick, but permitting removal of the packer as a unit in case the parts thereof do not stick, substantially as described.

1,422,705. TELEMOTOR. CHARLES A. HELFER, Los Angeles, Calif. Filed July 29, 1919. Serial No. 314,173. 18 Claims. (Cl. 138—23.)



10. In an appliance of the character described; a pair of power cylinders; pistons in said cylinders; a motor connected to and adapted to move the pistons in said power cylinders; means for starting said motor; a pair of auxiliary cylinders for each power cylinder; by-passes connecting each pair of auxiliary cylinders to their respective power cylinders; pistons in said auxiliary cylinders that are connected with a switch controlling said motor, said pistons arranged in said auxiliary cylinders so that excess pressure in said power cylinders will actuate them to stop said motor; a compound cylinder connected to said power cylinder, said compound cylinder having pistons therein that move coordinately with the pistons in said power cylinders.

1,422,706. METHOD OF AND MEANS FOR DISTILLING COAL. ARTHUR W. HELMHOLTZ, Harrisburg, Ill., assignor to Continuous Process Coke Company, Chicago, Ill., a Corporation of Maine. Filed Sept. 18, 1919. Serial No. 324,565. 13 Claims. (Cl. 202—9.)



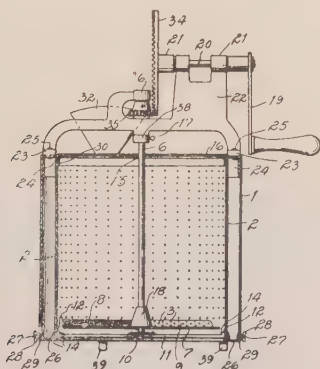
13. The method of distilling coal consisting first in heating the coal in a mass until the mass assumes a

plastic condition, during which time by-products are driven off, then adding oil to the mass to control its volatile content, then heating the mass at a higher temperature for driving off more by-products, and then compressing the mass for forming a firm coke.

1,422,707. POLISHING COMPOUND FOR FINISHING TABLE CUTLERY. GUSTAV F. HEMMING, New Haven, Conn.; Theresa L. Hemming administratrix of said Gustav F. Hemming, deceased. Filed Oct. 21, 1920. Serial No. 418,546. 1 Claim. (Cl. 51—280.)

A polishing compound for use in a tumbling barrel consisting of the waste products resulting from 1st, the glazing of the steel cutlery with fine emery, beeswax, and tallow; and 2nd, the cleansing of the cutlery in a distillate.

1,422,708. POTATO-PEELING MACHINE. HERBERT W. HODGDON and PANSY F. GREEN, St. Louis, Mo. Filed Dec. 5, 1921. Serial No. 519,860. 1 Claim. (Cl. 146—14.)

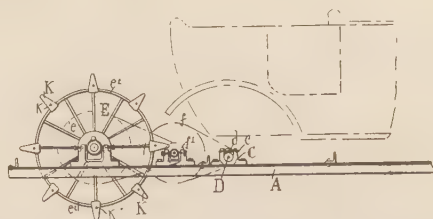


A machine for peeling vegetables; comprising a cutting-cylinder having cutters projecting from its inner surface; a vertical shaft mounted in said cylinder and extending therein axially from a point near the lower end of said cylinder to a point adjacent the upper end thereof; a rotary supporting, peeling and driving disk, carrying cutters which project from its upper surface, and said disk fixed upon said shaft near the lower end of said cylinder; the lower end of said cylinder being open, to permit the discharge thereof of the waste material; means for discharging a supply of water into the upper portion of said cylinder, to wash the peelings from said cutters, and discharge the same at the lower end of said cylinder; driving-means connected to the upper end of said vertical shaft, and located above the said cylinder, supporting-feet fixed to the lower end of said cutting-cylinder, to hold same a distance above the support for said feet, and provide a free passage for the waste water and peelings, between said support and the lower end of said cylinder, and an outer casing supported by said cylinder, and arranged to be detached from the latter, which may be lifted out of said casing, and be used independently thereof.

1,422,709. ATTACHMENT FOR CONVERTING MOTOR-DRIVEN CHASSIS INTO TRACTORS FOR AGRICULTURAL PURPOSES. JAMES HODGSON, Carlisle, England. Filed Mar. 8, 1918. Serial No. 221,280. 3 Claims. (Cl. 180—16.)

1. An attachment for converting a motor driven vehicle having an axle provided with a differential into a tractor for agricultural purposes, comprising an auxiliary frame to fit beneath the vehicle chassis, bearings thereon to receive the rear axle of the vehicle, a centrally placed tractor

wheel at the rear of said auxiliary frame upon which said frame is supported, means connected to both ends of the



rear axle of the vehicle for locking the differential and a driving connection from said vehicle axle to said tractor wheel.

1,422,710. PROCESS OF ANNEALING MALLEABLE CAST IRON. CHARLES T. HOLCROFT, Detroit, Mich. Filed Jan. 20, 1921. Serial No. 438,608. 12 Claims. (Cl. 148—13.)

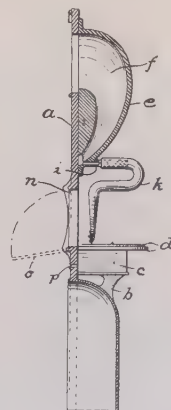


1. The method of annealing malleable iron castings which consists in exposing the material to temperatures variable in a definite progression, such progression being effective to raise the temperature of the material at a rate proportionate to the thermal conductivity to a predetermined point of reaction, to maintain reaction temperature for a predetermined time, and then to lower the temperature to a point below which rapid cooling will not injuriously affect the material.

1,422,711. PAINT. ALBERT C. HOLZAPFEL, New York, N. Y. Filed Mar. 2, 1922. Serial No. 540,589. 6 Claims. (Cl. 134—51.)

4. The process of deodorizing paints having residual pitch derived from the treatment of oils and fats as a material ingredient which comprises adding from one to five per cent of acetone thereto.

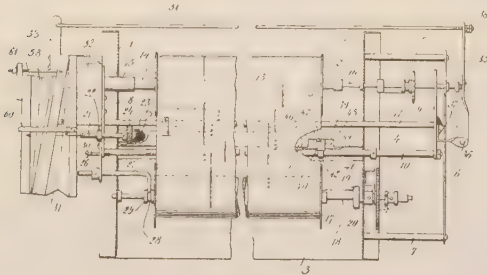
1,422,712. TALKING MACHINE. DELAWARE J. HOOD, Philadelphia, Pa. Filed Apr. 24, 1919. Serial No. 292,430. 1 Claim. (Cl. 274—2.)



A talking machine comprising a vertically disposed hinged support adapted to form a closure for a chamber, a motor casing supported on the rear side of the support, a rotary record table above the casing adapted to rotate

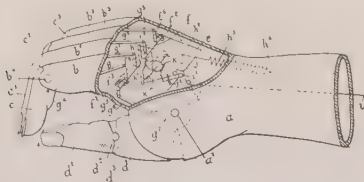
about a vertical axis, an amplifier mounted on the rear side of the support above the table, a sound arm connected to the lower portion of the amplifier and extending downwardly toward the table, a sound box on the lower end of the sound arm, there being an opening through the upper portion of the support communicating with the amplifier, there also being an opening through the support in the plane of the rotary table, the arrangement being such that the support can be swung on its hinges to move all of the parts out of the chamber.

1,422,713. TRACKING DEVICE FOR PLAYER PIANOS. JOSEPH P. HULDER, New York, N. Y., assignor to The Unit Player Action Co., a Corporation of New York. Filed Oct. 19, 1920. Serial No. 417,893. 6 Claims. (Cl. 84--140.)



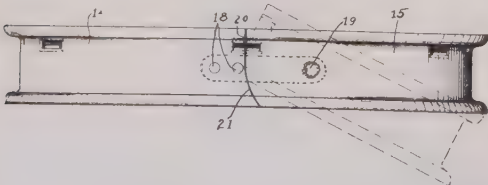
1. In combination a traveling note-sheet, a member having a pair of openings and a connecting groove disposed in the path of travel of an edge of the sheet, one of the openings being partly, and the other opening and the groove being entirely, covered by said edge, and a pneumatic tracking device connected with said openings and governed by lateral displacements of the sheet for automatically correcting such displacements.

1,422,714. JOINTED ARTIFICIAL HAND. PAUL ALFRED INGOLD, Paris, France. Filed Aug. 1, 1921. Serial No. 489,023. 9 Claims. (Cl. 3--12.)



1. An artificial hand comprising a body portion, finger members having their first phalanges integral with said body portion and second phalanges pivoted to said first phalanges.

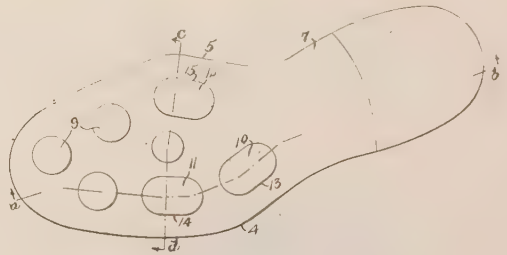
1,422,715. RIM. OTTO H. JOBSKI, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 12, 1919. Serial No. 344,443. 4 Claims. (Cl. 301--32.)



1. In a device of the class described, the combination of a vehicle wheel rim divided transversely at two points

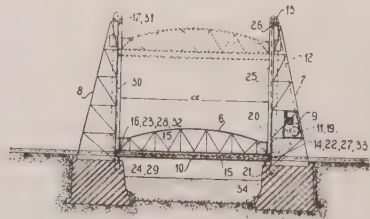
to form substantially equal arcuate sections, the lines of division each comprising a straight portion and a curved portion, and hinge plates connecting the adjacent ends of the rim sections whereby said sections are relatively movable about an axis eccentric to said curved portions, one of said hinge plates having a lost motion connection with one of said sections to permit circumferential motion of said end when the sections are moved about their axis.

1,422,716. SHOE SOLE. PAUL JONES, Hanson, Mass., assignor to Commonwealth Shoe & Leather Company, Whitman, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1921. Serial No. 509,533. 1 Claim. (Cl. 36--30.)



A shoe sole having resilient projections outstanding therefrom and constituting elements of the wear surface thereof, one of such projections being arranged near the inner edge of the sole and another near its outer edge, the latter of said projections being of greater height than the other.

1,422,717. LIFT BRIDGE. PIETER JOOSTING, Utrecht, Netherlands. Filed Mar. 7, 1921. Serial No. 450,165. 5 Claims. (Cl. 14--42.)

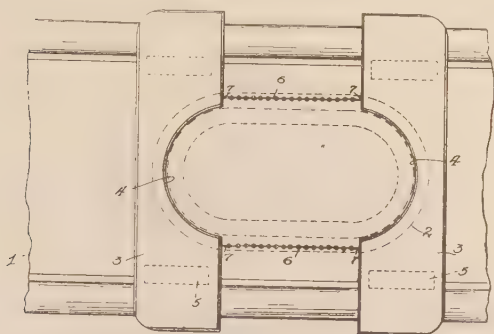


1. In a lift bridge, the combination with stationary towers, of a span adapted for vertical travel between said towers, a fixed lifting and lowering machinery, flexible pulling means extending from said machinery over guiding means at the upper part of the tower adjacent to said machinery and thence over guides in the span to a fixed point in the upper part of the other tower, and means adapted to prevent the span from going out of square with the towers.

1,422,718. SUSTAINING MEANS FOR INFANTS' BATHTUBS. CLARENCE C. KEEHN, Canandaigua, N. Y., assignor to The Lisk Manufacturing Company, Ltd., Canandaigua, N. Y., a Corporation of New York. Filed Nov. 4, 1921. Serial No. 512,936. 5 Claims. (Cl. 4--2.)

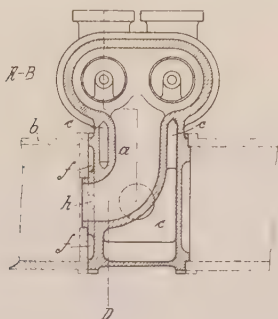
1. Sustaining means for an infants' bath tub comprising two members having opposed receptacle receiving recesses,

and flexible connections between said members of such lengths as to permit the members to be held in spaced



relation to each other and so constructed as to permit the movement of the members toward each other in their common plane.

1,422,719. AIR-COOLED INTERNAL-COMBUSTION ENGINE. RUDOLF KRONENBERG, Ohligs, Germany. Filed July 27, 1920. Serial No. 399,417. 1 Claim. (Cl. 123—177.)



In an internal combustion engine, a valve casing, a cylinder head with a passage connecting the same and an annular cavity surrounding said passage and communicating with the atmosphere adapted for the circulation of atmospheric air therethrough and around the said passage by natural draught, an annular cavity between the said casing and head, and openings communicating with said last-named cavity.

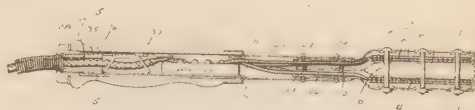
1,422,720. METHOD OF MANUFACTURING INSULATING AND RESISTANT ARTICLES AND PRODUCTS THEREOF. FRANK T. LAHEY, Akron, Ohio. Filed Mar. 11, 1921. Serial No. 451,613. 12 Claims. (Cl. 106—23.)

1. A method of manufacturing material of the character described, comprising the steps of treating vegetable fibres with a dilute alkali solution, in the presence of a vulcanizable oil and rubber at a temperature which does not destroy the structure of the fibre, adding a vulcanizing agent and heating until the oil is precipitated within the structure of the fibre and the material is vulcanized.

1,422,721. ELECTRICALLY-HEATED UTENSIL. JOSEPH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 18, 1919. Serial No. 318,188. 15 Claims. (Cl. 219—28.)

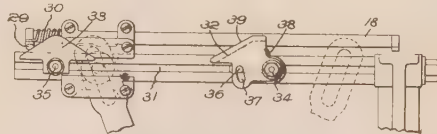
1. In a utensil provided with a handle and handle stem fitting therein, a threaded member fitting within said handle stem and provided with projections entering

notches in said handle stem in order to prevent relative rotation between the parts, and a second threaded member



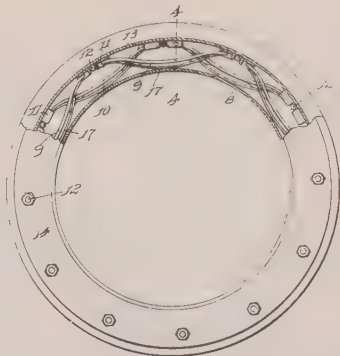
insertable in the outer end of said handle and engageable with said first threaded member.

1,422,722. WEFT SUPPLY AND PLACING MECHANISM. CHARLES LEA, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y., a Corporation of New York. Original application filed Nov. 2, 1916, Serial No. 120,072. Divided and this application filed Oct. 23, 1919. Serial No. 332,784. 11 Claims. (Cl. 139—40.)



11. In weaving mechanism, a weft needle, a bracket supporting said needle near one end thereof, a guide along which said bracket is longitudinally reciprocable, means for reciprocating said bracket, a pair of rigid laterally projecting jaws carried at the end of said needle opposite said bracket, one fixed, the other movable relatively thereto, and a pair of aligned cams upon said guide to actuate said movable jaw during the reciprocation of said needle-carrying bracket.

1,422,723. AUTOMOBILE TIRE. FREDERICK J. LEISSE, St. Louis, Mo. Filed July 6, 1920. Serial No. 394,054. 4 Claims. (Cl. 152—37.)

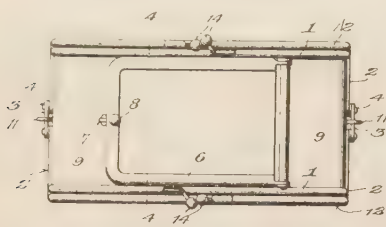


4. A tire of the class described comprising a plurality of leaf springs arranged in pairs of heavy and light tension and in staggered relation, a housing supporting the same, bearing boxes located in the housing in which the ends of the springs are seated, a tread member carried by the periphery of the housing, said tire being so constructed as to be attached to the rim of an ordinary automobile wheel, substantially as specified.

1,422,724. COMBINED PURSE AND VANITY-CASE FRAME. ISIDOR JOSEPH LEVY, New York, N. Y., assignor to Levy & Merzbach, New York, N. Y., a Firm composed of Isidor Joseph Levy and Louis Merzbach. Filed Oct. 10, 1921. Serial No. 506,588. 6 Claims. (Cl. 150—29.)

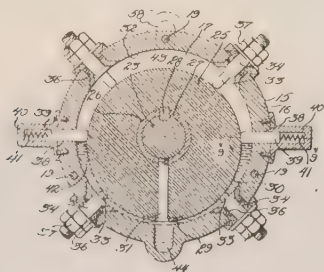
1. In a combined purse and vanity case frame, a central frame having a vanity case opening and having inverted

and opposed U-shaped sides secured thereto and depending therefrom, a hinged closure for the opening, and corre-



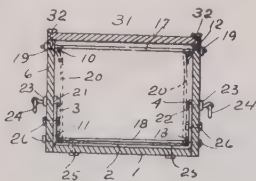
sponding inverted U-shaped members hinged at their free ends to the free ends of the U-shaped sides and cooperating therewith to form mouths for purse bags.

1,422,725. COMBINED SPARK TIMER AND OIL PUMP. JOHN MCCLELLAND, Philadelphia, Pa., assignor of one-half to Dallas B. Wiggins, Philadelphia, Pa. Filed Mar. 8, 1921. Serial No. 450,695. 4 Claims. (Cl. 200—26.)



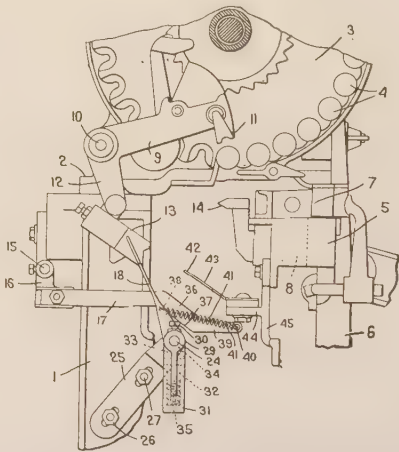
1. A device of the character described including a casing providing a chamber; a member eccentrically mounted in said chamber and movable with respect to the casing; resiliently pressed members movably mounted in said casing and held in sliding engagement with the eccentric surface of said member to divide the space in the chamber to form a fluid compartment, said casing having an opening communicating with said compartment; electric contact members on said casing; and electric contact means on said member adapted to successively engage said members; substantially as described.

1,422,726. COFFIN. GEORGE M. MAHAR and PHILIP M. M. PHELPS, Fair Haven, Vt. Filed May 20, 1921. Serial No. 471,041. 3 Claims. (Cl. 27—7.)



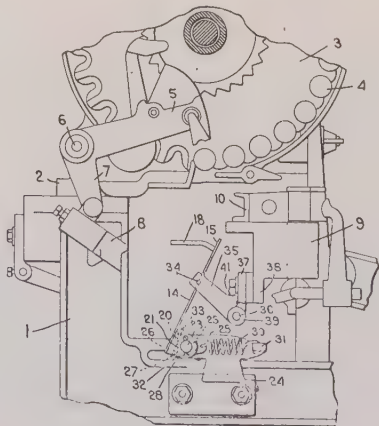
1. In a coffin the combination of a bottom slab of stone, end slabs of stone having their lower edges resting on the ends of the bottom slab, side slabs of stone enclosing between them the bottom slab and the end slabs, upper and lower cross rods holding the side slabs against the end and bottom slabs, supporting strips intermediate the ends having their centre portions secured to the upper face of the bottom slab and having their end portions upwardly extending and secured to the inner faces of the side slabs, and longitudinal rods extending along the side slabs and provided at their ends with means for holding the end slabs against movement either inward or outward.

1,422,727. FILLING-END CLEARER FOR FILLING-REPLENISHING LOOMS. ALFRED E. STAFFORD, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 24, 1920. Serial No. 360,893. 8 Claims. (Cl. 139—85.)



1. In an automatic filling replenishing loom comprising a lay having an opening therethrough to permit the discharge of an abandoned filling carrier, and transferring mechanism, a filling end clearer pivotally mounted to oscillate below the path of reciprocation of the lay, means for positioning the filling end clearer adjacent the rear wall of the aperture in the lay as the lay approaches transfer position, means for causing the clearer to sweep transversely across the path of the abandoned filling carrier after transfer, before the shuttle is picked, after having been supplied with a fresh filling carrier, and means carried by the lay for removing the filling end from the filling end clearer upon backward movement of the lay.

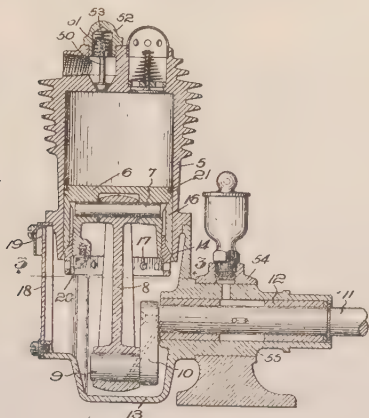
1,422,728. FILLING-END-WITHDRAWING MEANS FOR WET-REPLENISHING LOOMS. EDWARD S. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 14, 1920. Serial No. 416,810. 5 Claims. (Cl. 139—85.)



1. In a filling replenishing loom comprising a frame, a lay provided at its end with a shuttle box having an aperture therethrough to permit the discharge of an abandoned filling carrier, hooked teeth projecting downwardly from the forward wall of said aperture and pointing toward the adjacent end of the lay, a toothed filling end catcher pivotally mounted upon said frame, positioned below and closely adjacent to the path of the bottom of said lay end and behind the path of the discharging

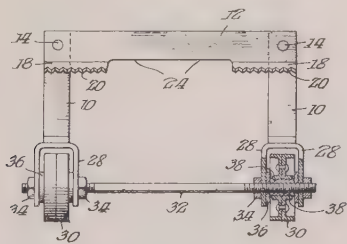
filling carrier during replenishment, acting as the lay recedes to engage and bend the filling end abruptly around the toothed under edge of the lay end, and a filling end clearer yieldably mounted on said lay below said filling end catcher adapted to cross the path of the discharging filling carrier upon the beat-up of the lay, and upon rearward movement thereof to engage said filling end and produce a bight thereof around said filling end catcher at the time the shuttle is picked next succeeding transfer.

1,422,729. PISTON. HAROLD D. WATERHOUSE, Quincy, Mass., assignor to Bay State Pump Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 3, 1919. Serial No. 274,637. 3 Claims. (Cl. 74-108.)



1. In a piston for air compressors, the combination of two separate and distinct packing means, one of said packing means comprising a continuous metallic piston ring having inwardly tapering edges, mechanical expansion means acting positively to expand said continuous piston ring, the other of said packing means comprising a resiliently expansible split piston ring.

1,422,730. PORTABLE TRUCK. MONTRAVILLE M. WOOD, Berwyn, Ill. Filed Apr. 25, 1921. Serial No. 464,362. 3 Claims. (Cl. 280-61.)

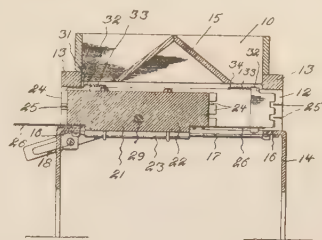


1. In a device of the class described two small angle members, a truck wheel supporting each, a bar connecting the angle members having an angularly turned serrated edge for application to a trunk edge, for the purposes set forth.

1,422,731. POTATO CUTTER. HARVEY L. BEUCLER, Lake Park, Minn. Filed Oct. 4, 1921. Serial No. 505,275. 2 Claims. (Cl. 146-7.)

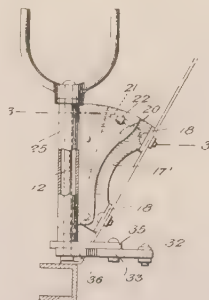
1. A device of the character described comprising a frame open at its top, bottom and both ends, supports secured to the ends of the frame, a hopper mounted upon the top of and discharging into said frame, a plurality of intersecting blades within the open ends of the frame and constituting dies, a carriage mounted for reciprocatory movement within the frame and including a block having

its ends grooved for accommodation of the die blades, means for reciprocating said carriage, tubular members



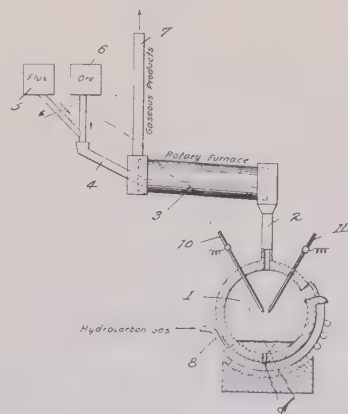
secured upon the underside of the carriage, and guide rods secured beneath the frame and passing through said tubular members.

1,422,732. MOVABLE HEADLIGHT. H. DIXON BOUGHTER, Decatur, Ill. Filed Feb. 19, 1921. Serial No. 446,357. 3 Claims. (Cl. 240-62.)



1. Dirigible headlights for motor vehicles comprising lamp supporting standards, a connection between the lamps whereby the latter are simultaneously rotated, a bracket for each lamp, said bracket including a wing shaped member fixed to the adjacent fender of the vehicle, a second wing-like member relatively adjustable to the first mentioned member, means for holding the adjustable member fixed in a given position, the latter mentioned member being formed to provide a bearing arranged along the outer side thereof and in which the adjacent lamp standard is mounted for partial rotation, and means whereby said standards are turned incident to the steering of the vehicle for the purpose specified.

1,422,733. METHOD OF PRODUCING IRON AND STEEL. WALTER E. F. BRADLEY, New York, N. Y. Filed July 17, 1918. Serial No. 245,368. 11 Claims. (Cl. 204-63.)



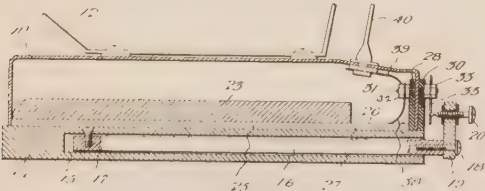
5. The method of reducing ores of iron which comprises passing finely divided ore and flux continuously

through a rotary drum furnace and into an electric furnace, fusing the mass in the electric furnace and simultaneously passing a reducing gas in opposite direction into the electric furnace, through the fused charge of ore and flux therein and through the rotary drum furnace.

1,422,734. METALLURGICAL PROCESS. WALTER E. F. BRADLEY, Nyack, N. Y. Filed Sept. 4, 1918, Serial No. 252,587. Renewed Dec. 5, 1921. Serial No. 520,157. 8 Claims. (Cl. 75—4.)

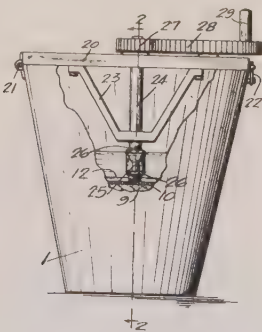
1. A metallurgical process, comprising reducing ores by a hydrocarbon gas, and introducing into the reduced molten charge an addition of metal oxide with free carbon.

1,422,735. AUTOMATIC MEANS FOR CONTROLLING ELECTRICALLY-HEATED DEVICES. ALBERT FRANKLIN BROWN, Los Angeles, and LAWRENCE BURROUGHS BURCK, Pasadena, Calif. Filed Jan. 16, 1918. Serial No. 212,091. 1 Claim. (Cl. 219—25.)



The combination with a body to be maintained at a substantially uniform temperature, of an expansion bar mounted therein, an adjustable contact element carried by the bar, and a resilient contact element with reference to which the adjustable contact element is movable upon the expansion and contraction of the bar, the contacts maintaining the circuit during the expansion and contraction of the bar to a given degree and breaking the circuit upon further expansion.

1,422,736. ORE SEPARATOR. EARL R. BROWN, Redlands, Calif. Filed Mar. 24, 1921. Serial No. 455,004. 3 Claims. (Cl. 83—87.)

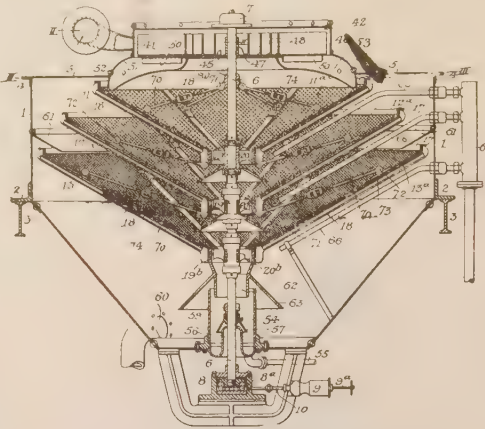


1. An ore separator comprising a fluid receptacle, an ore receptacle mounted therein and having an opening in its base to said fluid receptacle, means for creating a whirling motion of the fluid within said ore receptacle, means for supplying ore to the periphery of the base of said ore receptacle, and a spiral riffle upon the base of said ore receptacle forming a spiral passageway for said ore leading to said opening in the ore receptacle.

1,422,737. STRAINER FOR SUGAR JUICES. MARTIN E. CARTER, Philadelphia, Pa. Filed Feb. 7, 1919. Serial No. 275,522. 5 Claims. (Cl. 210—63.)

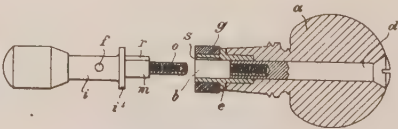
1. In a strainer for sugar juices and the like, the combination of a casing; a vertical shaft therein; a funnel-

shaped straining screen carried by said shaft, means for introducing juice to said screen, a depending flange extending within the upper zone of said screen, a deflector for the incoming juice tending to throw it toward said



flange and into the upper portion of the screen, means for rotating the screen, and separate outlets leading from the bottom of the casing for the discharge of juice and the material strained therefrom.

1,422,738. TENSIONING PEG FOR STRINGED INSTRUMENTS. KARL CASPARI, Frankfort-on-the-Main-Ginnheim, Germany. Filed Aug. 29, 1921. Serial No. 496,750. 2 Claims. (Cl. 84—304.)



1. An improved tensioning peg for stringed instruments comprising in combination an externally screw threaded stem, and a peg, a head on said peg, an internally threaded pin in said peg head connecting said peg head with said externally threaded stem, a cylindrical projection on said peg head, having a groove in the inner boring, a feather on said stem engaging with said groove, a peg box and a bearing member in said peg box supported by said cylindrical projection.

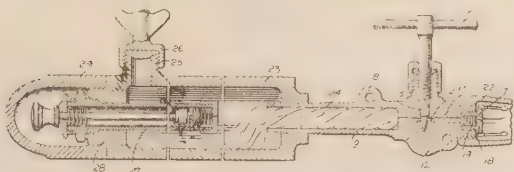
1,422,739. BRUSH. JORGEN E. CHLESO, San Francisco, Calif. Filed Nov. 4, 1921. Serial No. 512,887. 2 Claims. (Cl. 15—173.)



1. In a device of the character described, a handle provided with an annular shoulder adjacent one end thereof, a ferrule fitted on the end of the handle and engaging said shoulder, the inner walls of said ferrule be-

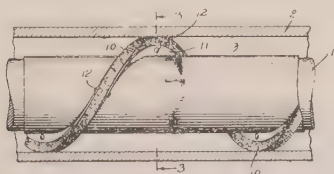
ing inclined outwardly from the handle, a casing within the ferrule, said casing comprising complementary semi-circular sections, one of which is provided with angular extensions and the other with notches to receive said extensions, and an apertured cross strip connecting the sections, bristles set in the casing, and fastening means passing through the aperture of the cross strip and embedded in the handle for drawing the casing against the inclined wall of the ferrule.

1,422,740. GASOLINE SOLDERING IRON. WILLIAM COHEN, Bayonne, N. J. Filed Jan. 14, 1921. Serial No. 437,242. 1 Claim. (Cl. 158—27.)



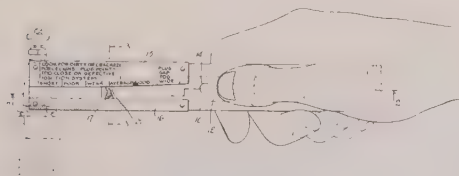
In a soldering iron a soldering head, a burner for heating said head, a frame carrying said head and mounted on said burner, a liquid fuel tank for supplying fuel to said burner, said tank having an open rear end, a sleeve having a continuous external thread and an internally threaded neck portion arranged in said open rear end, a hollow cap having a rounded end and threaded on said sleeve so as to cover the same and enclose part of the sleeve, the outer surface of the cap being flush with that of the container and said cap acting as a continuation or end piece to the container, and an air pump threaded into the neck of said sleeve with the discharge end extending into the container, and the manually operated end normally projecting into said cap and housed thereby.

1,422,741. GREASE RETAINER. SHADE B. COLLIER, Orlando, Fla. Filed July 20, 1921. Serial No. 486,200. 3 Claims. (Cl. 64—21.)



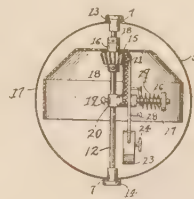
3. The combination with an axle and a housing therefor, of a sleeve fitting the axle, said sleeve being spirally slit, the metal adjacent the slits being turned outwardly to provide a flanged channel, and a strip of flexible material in the channel engageable with the housing.

1,422,742. TESTER. WILLIAM PEDRICK COOK, Laramie, Wyo. Filed Mar. 8, 1921. Serial No. 450,611. 4 Claims. (Cl. 175—183.)



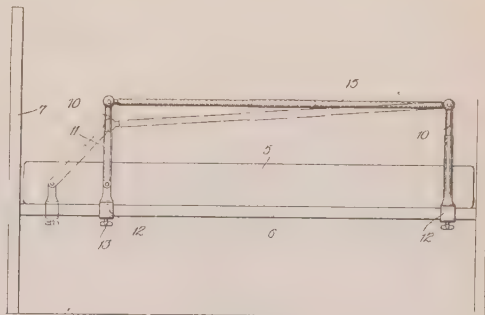
1. A tester including a pair of metallic members spaced one from the other, one of said members presenting an inclined longitudinal edge adapted to co-operate with the second of said members, and means for moving said second member with respect to said first named member.

1,422,743. GRADOMETER. DANIEL P. CORCORAN, Gridley, Calif. Filed Sept. 4, 1920. Serial No. 408,162. 2 Claims. (Cl. 33—215.)



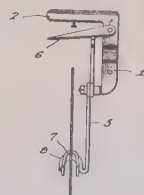
1. A gradometer including a casing provided with an apertured covering plate and adapted to be secured to a vehicle, a vertical shaft mounted within said casing, means associated with said shaft and adapted to rotate thereon, said means including a gear wheel, a master wheel and a calibrated conical indicator, a balance wheel comprising a gear portion and a quadrant member, said gear portion meshing with the gear wheel mounted on said shaft and imparting rotary movement thereto, means adapted to support said balance wheel on said vertical shaft, said means including a clamping element and an integrally formed horizontal shaft, a tension element encircling said shaft, and an index adjacent the aperture of the covering plate of said casing and adapted to co-operate with the calibrated conical indicator to register the grade of the road bed along which said vehicle is traveling.

1,422,744. BED ATTACHMENT. FRANK CORTESE, New Brunswick, N. J. Filed Nov. 8, 1921. Serial No. 513,778. 1 Claim. (Cl. 5—41.)



A bed attachment including clamping members, socket members associated with said clamping members, certain of said socket members being pivotally attached to said clamping members, shafts adapted to have their ends extending into said socket members, and interconnected rods having their ends pivotally associated with said shafts.

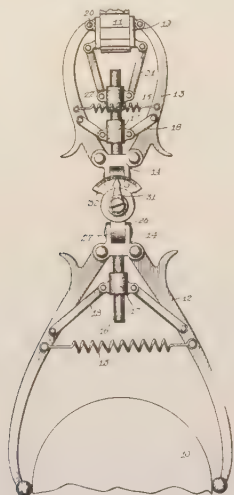
1,422,745. ATTACHMENT FOR SPINNING MACHINES. ARTHUR J. COTE and ADRIAN COTÉ, Franklin, Mass. Filed Apr. 19, 1921. Serial No. 462,637. 2 Claims. (Cl. 117—32.)



1. An attachment of the class described comprising a pair of jaw members between which the roving is adapted

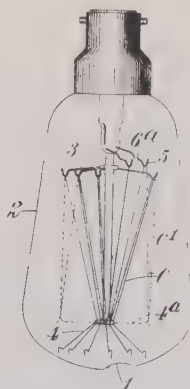
to pass, a movable member having a hook-shaped thread engaging part thereon for holding the said member in inoperative position as long as the thread is unbroken but acting under the action of gravity, when the thread breaks, to close the jaws upon the thread, and an anti-friction member arranged in the hook part for engaging the thread.

1,422,746. KEYWAY LOCATOR. KIBBEY W. COUSE, New York, N. Y. Filed Sept. 8, 1920. Serial No. 408,897. 7 Claims. (Cl. 33—185.)



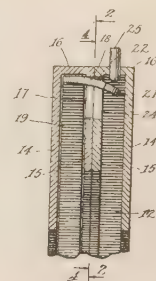
1. A keyway locator, including a pair of calipers each comprising a pair of legs pivotally secured together adjacent one of their ends, means connecting and permitting a universal swinging of one of said calipers with respect to the second of the same.

1,422,747. RENEWAL OF THE FILAMENTS IN METAL FILAMENT ELECTRIC LAMPS. SYDNEY COXON, Liverpool, and WILLIAM ALBERT WILLIAMS, Wallasey, England, assignors to The Aladdin Renew Electric Lamp Corporation Limited, London, England, a British Corporation. Filed Sept. 2, 1920. Serial No. 407,755. 5 Claims. (Cl. 176—7.)



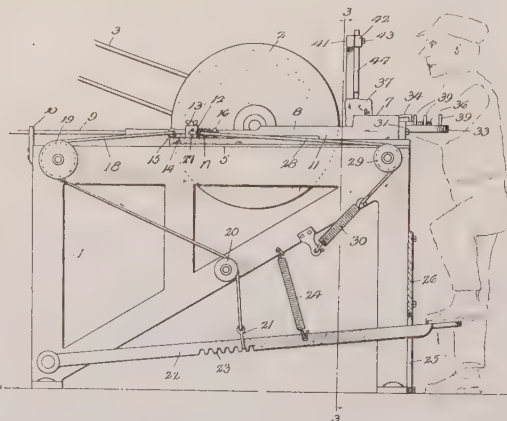
1. The process of renewing the metallic filament upon the permanent supports within an electric incandescent lamp without removing them from the bulb, comprising making an opening in the bulb, winding the new filament directly round the upper permanent scaffold wires and the roots of the lower permanent frail scaffold wires, setting the filament, then moving the depending loops of the filament from the roots to the outer ends of the lower scaffold wires.

1,422,748. HAND-BAG CATCH. BERNARD P. CULLEN and MATTHEW J. WOCHNA, Jersey City, N. J. Filed Apr. 29, 1920. Serial No. 377,664. 4 Claims. (Cl. 292—86.)



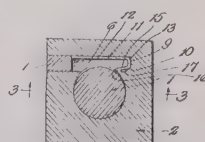
1. The combination with a hand bag, including a pair of coacting separable frame jaws, of a headed spring catch carried by one jaw, the other jaw having an irregular shaped opening therein, the walls of said opening being engageable with the catch to depress the same and permit its entrance therebetween, said catch adapted to interlock with the walls of said opening after its entrance therebetween, means concealing said catch when the jaws are closed, and one of said frames having an opening therein permitting the introduction of a tool for releasing said catch.

1,422,749. WORK HOLDER. ADOLPHUS DAMERON, Cleveland, Ohio. Filed Dec. 30, 1920. Serial No. 434,165. 6 Claims. (Cl. 51—240.)



1. The combination with a supporting frame, and a grinding member mounted thereon, of a carrier movable longitudinally of the frame in a plane parallel with the grinding member, a work-holder secured to said carrier, a foot lever, a yielding coupling fitted to the carrier, a flexible connection between the said coupling and the foot lever, means for holding the lever normally raised, and means acting upon the carrier in opposition to the foot lever.

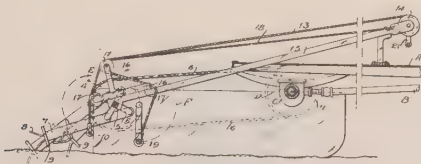
1,422,750. LOCK NUT. HARMON L. DAVIS, Greenville, Pa. Filed Mar. 31, 1921. Serial No. 457,415. 1 Claim. (Cl. 151—25.)



A lock nut comprising a body having a bolt opening and provided in one wall of the opening with a recess

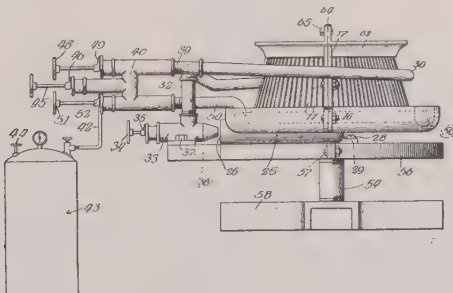
extending substantially tangential thereto, the recess opening through one face of the nut and terminating short of the opposite face thereof and being closed at the front and the back of the nut, one wall of the recess remote from the bolt opening being straight, the opposite wall of the recess for a portion of its length being located in a plane divergent to the plane of the first mentioned wall, a resilient locking element seated within the recess and comprising a shank resting against the first mentioned wall of the recess and provided near its end with a bend forming a locking tooth resiliently held against the second mentioned wall of the recess and with its engaging end projecting into the bolt opening whereby to engage and bite into the threads of the bolt upon which the nut is threaded, the last mentioned wall of the recess having a notch formed therein to receive a key for engagement with the tooth of the locking element for the purpose of springing the tooth to inactive position when the key is rotated, the front side of the nut being provided with an opening communicating with the recess and the said notch and adapted to receive the said key, and a plug closing the other end of the recess and engaging the adjacent end of the shank of the locking element.

1,422,751. MOTOR-DRIVEN SLED. FRED W. DENBROOK, Fond du Lac, Wis. Filed Apr. 18, 1921. Serial No. 462,103. 5 Claims. (Cl. 180—8.)



1. A device of the class described comprising a support, a plurality of rearwardly and downwardly inclined surface engaging steppers pivotally mounted on said support, a supporting member on which said steppers rest and by which they are guided, and means for elevating said member to move the same in a circular manner to cause the steppers to assume a forwardly and downwardly inclined position, whereby to drive the support in a reverse direction.

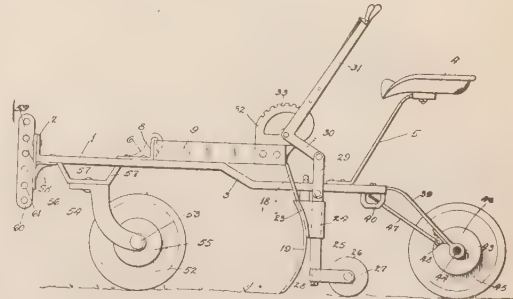
1,422,752. HYDROCARBON BURNER. FOREST V. DEWILER, Pottstown, Pa. Filed Nov. 24, 1919. Serial No. 340,105. 12 Claims. (Cl. 158—71.)



12. A hydrocarbon burner embodying a burner chamber, said chamber embodying top and bottom portions separate from each other, one of said portions encompassing the other portion and being spaced therefrom, each of said portions being of sectional construction, abutting flanges on the proximate edges of the respective sections, fastening devices passing through the flanges, there being burner openings through the outermost portion, a vaporizing pipe encompassing the chamber, means whereby vapor from the pipe may be delivered into the said

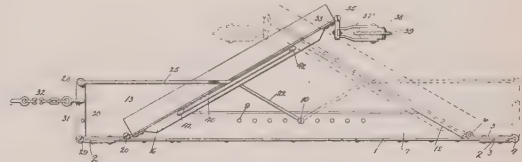
chamber, a sectional flame deflector removably seated upon and encompassing the top of the said chamber and projecting beyond the wall thereof, and means for clamping the deflector to the top of the chamber.

1,422,753. GRADING MACHINE. HENRY L. DEVER, Owensboro, Ky. Filed Dec. 9, 1920. Serial No. 429,405. 4 Claims. (Cl. 37—49.)



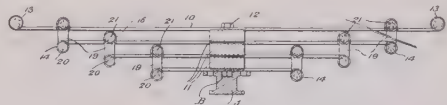
1. In a grading machine, the combination of a main frame bar, a blade pivotally connected with the bar, an arcuate locking frame having a flat web slidably resting on the bar in advance of the blade and an upstanding web rising from the convex edge of the flat web, hangers depending from the ends of said frame and secured to the blade, a latch mounted on the bar to engage the flat web of said frame and secure it in a set position, and a guiding socket secured upon the bar in advance of said frame and having an overhanging portion engaging over the upper edge of the upstanding web of said frame.

1,422,754. GRADER. HENRY L. DEVER, Owensboro, Ky. Filed Jan. 7, 1921. Serial No. 435,704. 3 Claims. (Cl. 37—5.)



2. In a grader, the combination of a landside, a blade, means for detachably connecting either end of the blade to the corresponding end of the landside, a draft bar pivotally fitted to the blade at the center thereof, and a brace bar pivoted at its rear end to the landside and having its front end pivotally engaged upon the draft bar.

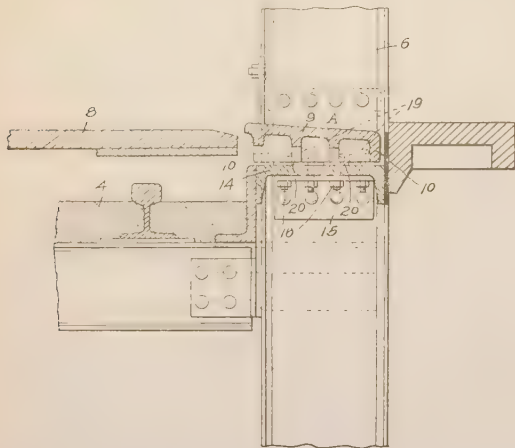
1,422,755. VEHICLE SPRING. HERMANN B. DIPWORTH, Saginaw, Mich. Filed Mar. 21, 1921. Serial No. 454,021. 2 Claims. (Cl. 267—47.)



1. A vehicle spring comprising the combination with a vehicle axle and frame, of a plurality of spaced superposed leaves of progressively increasing length, the lower or shorter leaves being secured upon the axle and the uppermost leaf being provided at its ends with knuckles adapted for connection with hangers associated with the vehicle frame, hangers pivotally connected with the ends of all the leaves and extending upwardly, bolts extending

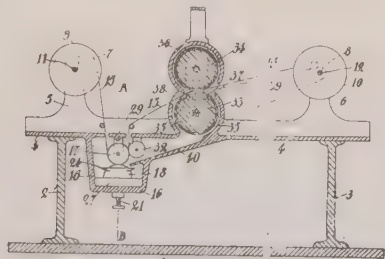
through the upper portions of the respective hangers and engaging against the upper sides of the leaves next above, and a roller journaled intermediate the ends of each hanger and engaging against the underside of the leaves next above.

1,422,756. APRON FOR COKE-OVEN DOORS. LEMAN E. DOTY, Elyria, Ohio, and FRANKLIN H. SMITH, Brentwood Borough, Pa. Filed Feb. 7, 1921. Serial No. 442,988. 3 Claims. (Cl. 214—23.)



1. The combination with a coke oven having an exit doorway, and buckstays along the sides of said doorway, of a coke guide adapted to travel along the front of said oven and to clear said buckstays, a supporting member secured to said buckstays, and an apron plate mounted on said supporting member between said buckstays adapted to bridge the space between said oven and said coke guide, and bolts passing through elongated slots in said apron plate and said supporting member for securing said apron plate in position.

1,422,757. APPARATUS FOR INKING RIBBONS FOR TYPEWRITERS OF ANY MAKE. OTTO FRANKENBÜSCH, Vienna, Austria. Filed June 23, 1920. Serial No. 391,195. 7 Claims. (Cl. 91—18.)

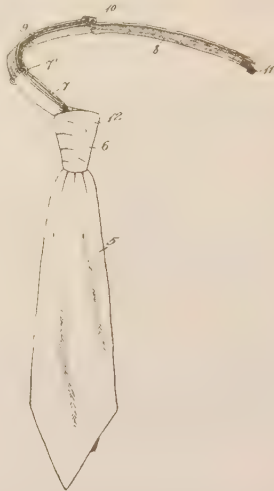


1. An inking apparatus of the kind described, comprising in combination a suitable base plate, a plate supported horizontally on said base, a depending trough on said plate, a rotatable drum journaled in said trough, a hollow yielding cushion below said drum and cooperating with the same, discharge openings in the top of said cushion, said cushion being filled with ink, means for regulating the discharge of ink from said cushion, and means for continuously moving a ribbon to be inked between said drum and cushion, substantially as set forth.

1,422,758. ATTACHMENT FOR NECKSCARFS. MORRIS GOLDBERG, Brooklyn, N. Y. Filed Nov. 6, 1918. Serial No. 261,381. 2 Claims. (Cl. 2—83.)

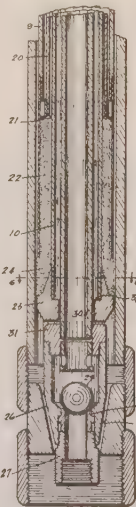
1. In combination, a tie folded upon itself and knotted

to provide a knot and a loop extending from one side of the knot, a tape having one end secured to the loop and means



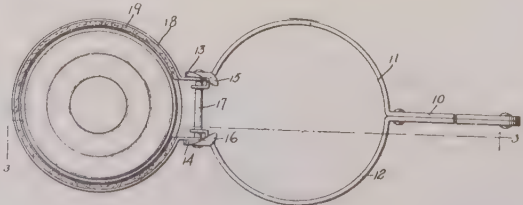
including a removable member secured to the knot for detachable connection with the opposite end of the tape.

1,422,759. PUMP. HENRY M. GREEN, Los Angeles, Calif. Filed Aug. 31, 1921. Serial No. 497,340. 12 Claims. (Cl. 103—225.)



1. A pump including a working barrel and having a reciprocating plunger, and packing within and adapted to be forced from one end of said plunger against said barrel by the weight of the pumped fluid above said plunger.

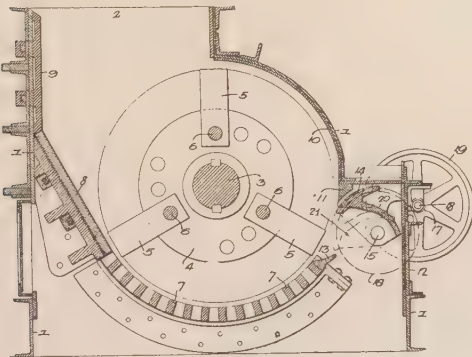
1,422,760. WRENCH. BENJAMIN W. HANLE, Roselle Park, N. J. Filed Dec. 22, 1921. Serial No. 524,218. 6 Claims. (Cl. 81—3.1.)



1. As a new article of manufacture, a jar-cap wrench of the class described, comprising a handle having a pair of

curved jaws, the ends of which are spaced apart, a rod joining the ends of said jaws, a one-piece cap band having its ends slidably mounted on the rod, and cam members attached to the ends of the handle jaws and co-operating with the ends of the cap band to move them inward along the rod to decrease the diameter of the cap band to grip the jar cap.

1,422,761. HAMMER CRUSHER. WILLIAM H. HARTMAN, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed Nov. 10, 1920. Serial No. 423,164. 7 Claims. (Cl. 83—11.)



1. The combination in a hammer crusher of a cage having inlet and outlet openings; a series of rotary hammers in the cage; and a rotatably adjustable valve mounted adjacent the outlet opening, said valve including a circumferential face adjustable into position to form a portion of the cage wall when the outlet opening is closed, and also including a portion extending from said face inwardly toward the axis of rotation of the valve to constitute a deflecting plate when the outlet opening is open.

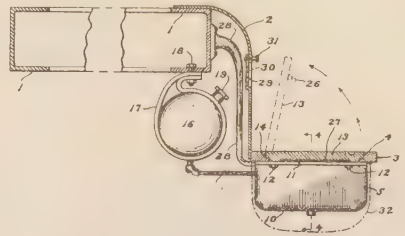
1,422,762. CASING SWAGE. FLOYD H. HATFIELD, Rawlins, Wyo. Filed Jan. 12, 1921. Serial No. 436,763. 8 Claims. (Cl. 153—80.5.)



2. A swage comprising a sleeve having a lower portion apertured at its side and tapered to a point, and a mandrel movable longitudinally in the sleeve and through the apertured tapered portion thereof.

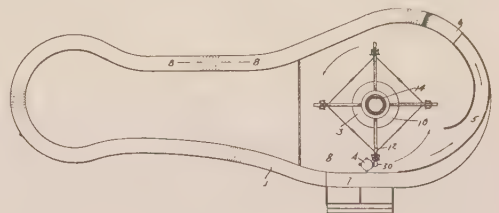
300 O. G.—23

1,422,763. WASHBASIN FOR AUTOMOBILES. WILLIAM H. HOLLIS, Germantown, Pa., assignor of one-half to Dr. Vivian Pinnock-Bailey, Philadelphia, Pa. Filed Nov. 8, 1921. Serial No. 513,730. 5 Claims. (Cl. 250—164.)



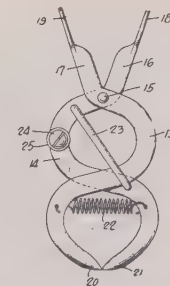
1. The combination with the running board and chassis of an automobile of a lavatory basin, a cover for said lavatory basin adapted to seat in flush with the surface of said running board, means for supplying water to said lavatory basin, and means associated with the running board apron whereby said reservoir may be replenished.

1,422,764. AMUSEMENT RIDE. JACOB IRSCH, New York, N. Y. Filed Dec. 8, 1921. Serial No. 521,029. 8 Claims. (Cl. 104—53.)



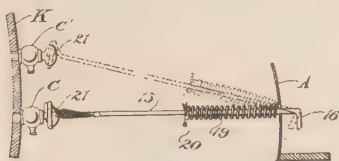
1. An amusement ride of the character described comprising a track, a rotatable power member, a carriage, a coupler for connecting the carriage with the rotatable power member whereby the power member will move the carriage in a circle, guiding means arranged adjacent the power member for guiding the carriage to the track when released from the power member and manually actuated means for releasing said coupler.

1,422,765. BATTERY GRIP. CARL EBEN JOHNSON, Chanute, Kans. Filed June 1, 1921. Serial No. 474,240. 1 Claim. (Cl. 173—273.)



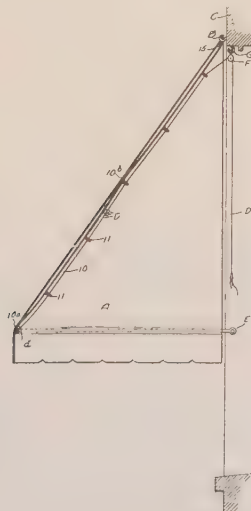
A battery grip, comprising S-shaped jaw members pivoted near their upper ends, handles integral with the jaw members and extending above the pivot point, flattened sharpened ends formed on the lower extremities of the jaw members in alignment with one another so that they abut, a spring connected to the jaw members and extend-

1,422,771. GAUGE-COCK-OPERATING TOOL. SHERMAN T. KUNKEL, Los Angeles, Calif. Filed Dec. 3, 1921. Serial No. 519,670. 1 Claim. (Cl. 137—139.)



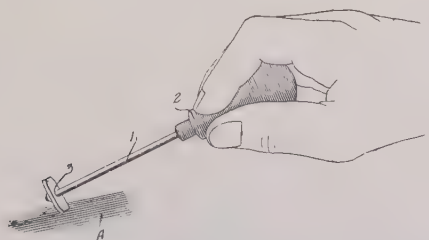
In combination, a magneto casing having gauge cocks arranged one above the other, a running board apron having an opening in horizontal alignment with one of the gauge cocks, and an operating tool movably sustained in the opening to be alternately applied to the cocks for actuating the latter, and means for urging the tool inwardly toward said cocks.

1,422,772. ATTACHMENT FOR AWNINGS. JOHN AMBROSE LENHOFF, Hockessin, Del. Filed Aug. 17, 1921. Serial No. 493,165. 6 Claims. (Cl. 156—15.)



6. An attachment for awnings consisting of a flexible strip separate from the awning material and having means to secure it to the awning at separate points to rise and fall with the raising and lowering of the awning, and be free from the awning material between said securing points, said strip having means to secure it independently of the awning to the structure on which the awning is supported, said strip furthermore having eyelets offset therefrom through which a hoisting and lowering cord of the awning may pass.

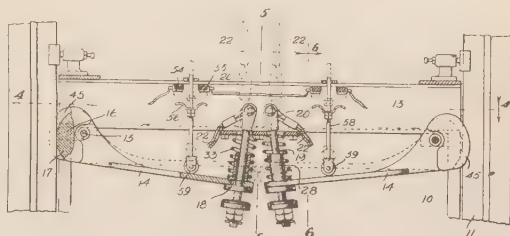
1,422,773. VIGNETTING TOOL. WILLIAM J. MCCARTHY, Rochelle Park, N. J. Filed Dec. 13, 1921. Serial No. 522,171. 3 Claims. (Cl. 81—3.)



1. A vignette tool which comprises a rod having a hand portion at one end and a plate fastened to the other

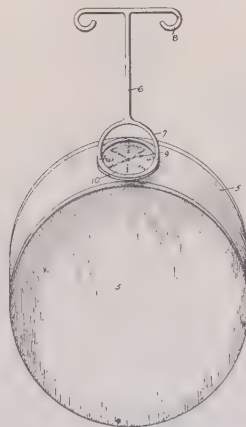
end, said plate disposed substantially transversely to the rod, serrations formed on the upper and lower edges of the plate, said serrations disposed transversely of the edges.

1,422,774. SAFETY DEVICE FOR ELEVATORS. HARRY MCGILLIVRAY, New York, N. Y. Filed Mar. 22, 1921. Serial No. 454,330. 5 Claims. (Cl. 187—87.)



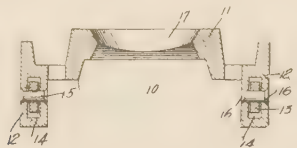
3. In a safety device for elevators, the combination with an elevator car and counterweights therefor movable between vertical guide rails in the elevator shaft, of means for frictionally locking the car and counterweights within the shaft in event of breaking of the cables, comprising levers pivoted respectively to the car and counterweight, each of said levers including cammed heads, a spring adapted to coact therewith for rocking the lever to a position to effect frictional engagement of the cammed head with the guide rail, a cable connection between each set of car and counterweight levers for holding the levers normally inactive to retain the cammed heads out of engagement with the guide rails, and means interposed between the lever and the car or counterweight structure constituting the abutments for limiting the compression of the springs whereby the carrying load is carried by said means.

1,422,775. TOY. LEON MARTOCCI-PISCULLI, New York, N. Y. Filed Mar. 9, 1921. Serial No. 450,990. 2 Claims. (Cl. 46—41.)



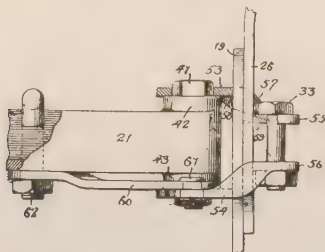
1. A toy, including a body, a dial fixedly secured to said body, a magnetic needle rotatably mounted with respect to said dial, a handle having a bifurcated end, said handle being attached to said body.

- 1,422,776. FLEXIBLE METALLIC STRUCTURE. HYACINTH MAXENCHS, New York, N. Y. Filed June 4, 1921. Serial No. 475,131. 3 Claims. (Cl. 59—80.)



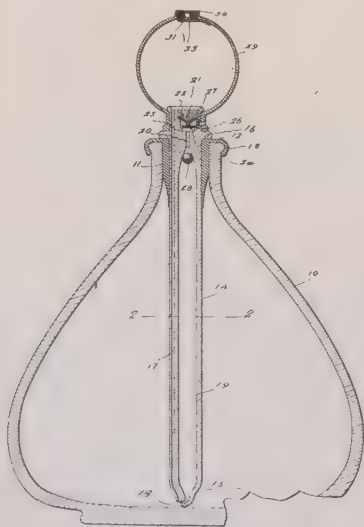
1. A flexible metallic structure comprising a plurality of individual members of substantially U-shape in cross section, said U-shaped members having longitudinal channels in the legs thereof, and means of connection extending through said channels.

- 1,422,777. BUMPER BRACKET. RICHARD T. NEWTON, New York, N. Y. Filed Mar. 17, 1922. Serial No. 544,462. 12 Claims. (Cl. 293—55.)



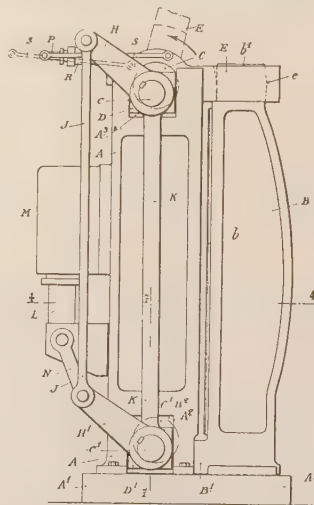
4. In bumper supporting means, a pair of members adapted to straddle a support, and apertured to freely receive a bumper attaching element, together with means for clamping said members on the support and for cramping them into engagement with said attaching element.

- 1,422,778. ATOMIZER. EDWARD CHARLES PETCHER, St. Louis, Mo. Filed Apr. 26, 1921. Serial No. 464,617. 5 Claims. (Cl. 128—177.)



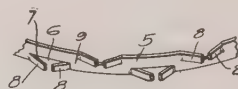
1. An atomizer comprising a container, a combined chamber and atomizer tube normally positioned within the container and adapted to be removed therefrom for use, said tube having an air channel, a compressible bulb carried by the tube and communicating with said container through the air channel and a valve controlled air escape port for said tube.

- 1,422,779. PLATE-BENDING PRESS. JEAN ALBERT PERONY, St.-Ouen, France, assignor to Societe D'Outillage Mecanique et D'Usinage D'Artilerie, St.-Ouen, Seine, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 398,019. 2 Claims. (Cl. 153—48.)



1. A plate bending press comprising a fixed abutment block provided with a recessed guide portion, an angularly formed press head having one side shaped to provide a bending tool and the other side formed to provide a flange engaging in the recessed guide portion of said abutment block, and means adapted to impart parallel reciprocating motion to the press head with respect to the abutment block, said means including a tie rod operatively connected with said press head and axles journaled in the abutment block and extending through said tie rod and the flange of said press head respectively.

- 1,422,780. ANTISLAP SPRING FOR PISTON RINGS. HENRY C. PHELPS and JOHN C. Fox, Glendale, Calif. Filed June 20, 1921. Serial No. 478,970. 2 Claims. (Cl. 74—109.)

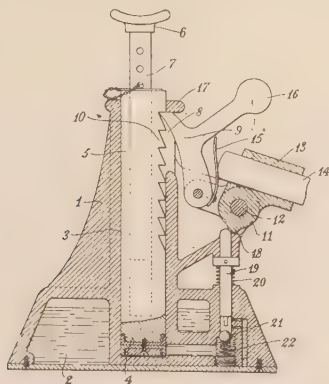


1. A piston ring expander comprising a strip of resilient material alternately transversely slitted from its side edges and longitudinally slotted both ways from the transverse slits, and the ends of the lips thus formed being turned outwardly, the uncut ends of one set of lips being nearly in transverse alignment with the uncut ends of the adjacent lips at the opposite side.

- 1,422,781. LIFTING JACK. ARCHIBALD DOUGLAS POWELL, Braintree, England. Filed Oct. 26, 1920. Serial No. 419,597. 10 Claims. (Cl. 254—95.)

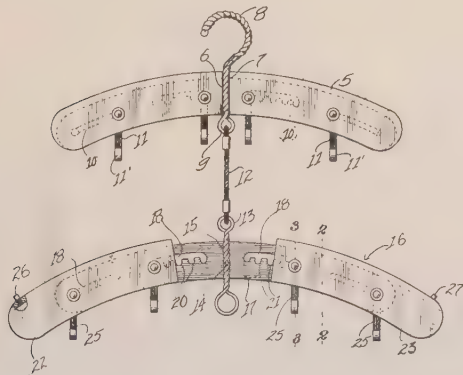
1. A lifting jack, comprising a base formed for containing fluid and with a spindle housing, a spindle slidable in the housing formed with ratchet teeth and provided with a crutch at the upper end, the base being formed with

a passage from the fluid container to the spindle housing, a valve mounted in the passage and closing it to a



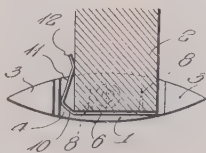
reverse flow, and means for elevating the spindle, said means also being adapted to operate the valve to permit a reverse flow of fluid.

1,422,782. GARMENT HANGER. CARRIE S. RATTAN, San Francisco, Calif. Filed Sept. 6, 1921. Serial No. 498,756. 1 Claim. (Cl. 211—13.)



In a garment hanger, a supporting hook having a depending shank, a curved supporting bar mounted on said shank, laterally sliding hooks supported by said curved support, a second curved supporting bar suspended below said first mentioned curved supporting bar, said second curved supporting bar being of a length equal to the first mentioned supporting bar, slots formed in said second mentioned supporting bar, end pieces adapted to be slidably held on said second mentioned supporting bar, cross-pieces extending therethrough and adapted to pass through said slots, and means carried at the outer ends of said end pieces for retaining a garment thereon.

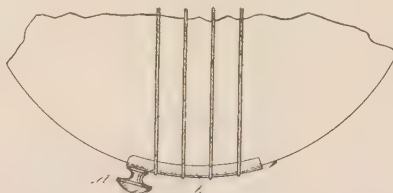
1,422,783. DOORCHECK. ALEX REEVES, Atlanta, Ga. Filed July 21, 1921. Serial No. 486,555. 8 Claims. (Cl. 292—216.)



1. The combination with a rotatable door engaging and holding block having a door receiving recess providing op-

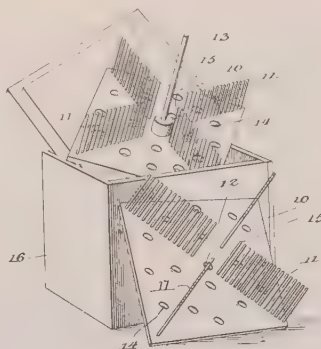
posed shoulders, of a spring member adapted to be connected with the lower corner portion of a door and extend from the side of the door to engage and turn the block into position to receive the door in the recess with the spring member engaging one shoulder and holding the door in engagement with the other shoulder to prevent rattling of the door against the holder.

1,422,784. RIBBON ATTACHMENT FOR STRINGED INSTRUMENTS. JOHANNES RICHTER, Niederlossnitz, near Dresden, Germany. Filed Mar. 10, 1920. Serial No. 364,868. 1 Claim. (Cl. 84—301.)



A device whereby a mandolin or a similar stringed instrument may be held in position by a cord consisting of a piece of metal slightly curved to conform to the lower end of the instrument of right angular cross section and comprising two arms of different widths, said piece having its edge at the angle rounded off, an eye at one end of the arm which bears upon the lower end of the instrument and a grooved knob secured in said eye so that it stands outside the range of the strings, both ends of the cord being held by the groove of said knob.

1,422,785. FILM HOLDER. JOSÉ E. RODRIGUEZ SERRA, Ponce, Porto Rico. Filed Jan. 16, 1920. Serial No. 351,748. 3 Claims. (Cl. 242—77.)

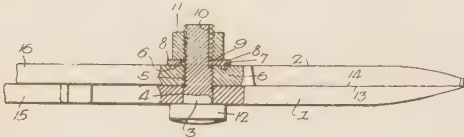


3. A holder comprising a plurality of film racks, each including an apertured base member and relatively spaced groups of spaced bars secured to and disposed vertically relatively thereto, a central post secured to the base members of one of the racks and adapted to extend through an aperture in the base member of the other rack so as to maintain the racks in a superposed and detachable relation.

1,422,786. SHEARS. GEORGE L. ROGERS, Philadelphia, Pa., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 11, 1921. Serial No. 468,510. 2 Claims. (Cl. 30—11.)

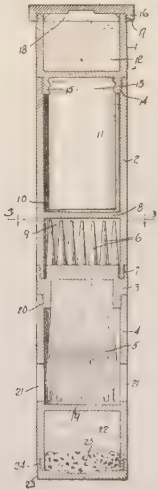
2. The combination of a bolt on which two parts are mounted, said bolt having a screw threaded portion adapted to the threads in one of said parts, said bolt having a longitudinal keyway therein; a washer mounted on the

bolt and having a key adapted to the keyway; means adjustably connecting the washer with one of the parts;



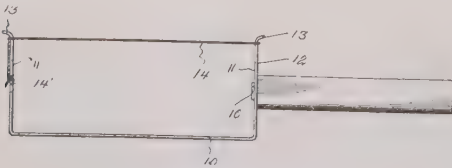
and means, on the bolt, for holding the washer to said part so that the part, which is not rigidly connected to the bolt, can turn freely on the bolt.

1,422,787. COMBINATION FACE BRUSH. ARTHUR E. ROPE, Brooklyn, N. Y. Filed Dec. 31, 1921. Serial No. 526,088. 2 Claims. (Cl. 132—81.)



1. As a new article of manufacture, a combination face brush comprising a body having a brush at one side and massage devices at the other side, covers having screw-threaded engagement with the body and covering the brush and the massage device respectively, one of said covers having a receptacle at one end, a member having screw-threaded engagement with the other of said covers and adapted to support a shaving stick, said last-mentioned member also constituting a receptacle, removable closures for said receptacles, a powder puff secured to one of said covers, and a sponge to the other of said closures.

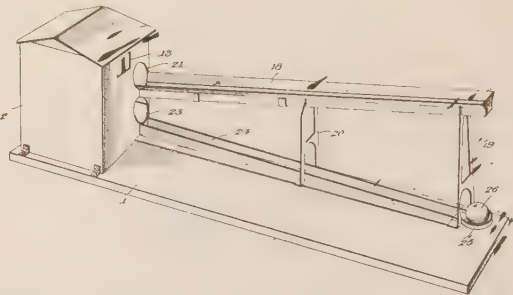
1,422,788. COMB CLEANER. CLARENCE RUNYAN, Aurora, Ind. Filed Aug. 30, 1921. Serial No. 496,856. 1 Claim. (Cl. 132—29.)



A comb cleaner comprising a substantially U-shaped frame, fingers projecting from the upper edge of the parallel end walls of said frame, one end wall having notches in its opposed side edges, a thread passed about said fingers in a manner to provide spaced parallel strands extended across the open end of the frame, with the terminals of said thread in said notches, the opposite end wall of the frame having parallel slots, a handle formed from a single piece of material, said handle being of substantially U-shaped formation in cross section, bendable tongues projecting from the opposed sides of the handle

and adapted to be passed through said slots and subsequently bent against the adjacent end wall for holding said handle and frame fixed relatively.

1,422,789. TOY. ARTHUR C. SCHLOTH and HERMAN E. SCHLOTH, Lynn, Mass. Filed June 7, 1921. Serial No. 475,805. 2 Claims. (Cl. 46—57.)



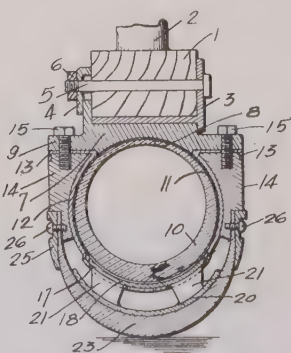
1. A toy or game, as herein described, comprising a housing having a sight opening, a shaft journaled in the housing, a numerically marked cylinder on the shaft, said shaft having radially disposed blades projecting therebelow in the path of contact with a spherical member, a downwardly inclined chute for directing the spherical member against the blades, and an oppositely directed trough receiving the spherical member after its contact with the blades for returning the same outward of the housing to a position below the elevated end of the chute.

1,422,790. CHAIN. JOSEPH FULLMER SCHOTT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 17, 1919. Serial No. 331,301. 5 Claims. (Cl. 74—32.)



1. The combination in a single bar chain, of a series of bars, each bar having a large head at one end and a small head at the opposite end, the heads being integral with the bars; and block and socket couplings connecting the bars, each block having a recess for the small head of a bar and each socket having a recess for the large head of a bar, one of said parts having a space between the two recesses to allow for the longitudinal movement of the bar and to allow a head to turn in the recess when it is desired to detach a bar.

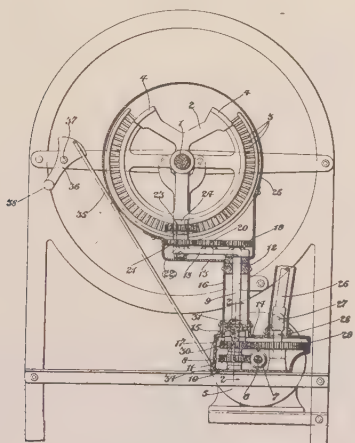
1,422,791. METAL-SHEATHED PNEUMATIC TIRE FOR VEHICLES. GEORGE F. SCHRIER, Long Beach, Calif. Filed June 2, 1921. Serial No. 474,385. 1 Claim. (Cl. 152—10.)



A pneumatic tire comprising a rim block adapted to be mounted upon a wheel and having an annular groove in

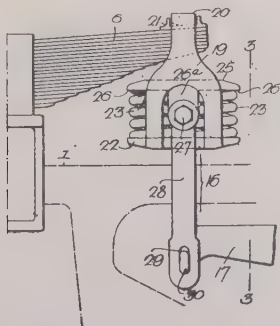
its peripheral face to form a seat for an inner tube, the sides of the rim block extending outwardly from the annular groove, an inner tube covered with a liner and fitting in the annular groove, a metallic sheathing around the inner tube against the liner and extending outwardly and fitting the peripheral faces of the rim block at the sides of the groove, said metallic sheathing having peripheral openings at its tread portion, said sheathing being offset outwardly around the openings, circumferential sectional protecting plates fitting against the liner within the sheathing and covering the openings, circumferential sectional tread plates having lugs extending radially inwardly through the openings in the sheathing and impinging against the protecting plates, annular side plates fitting against the sides of the sheathing and bolted to the rim block, and a tire tread fitting against the tread plates and having side edges removably secured to the side plates.

1,422,792. GEARING. AUGUST E. SCHUETTE, Red Bud, Ill., assignor to Central Manufacturing Company, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 17, 1921. Serial No. 437,932. 2 Claims. (Cl. 74—50.)



1. The combination with a gear wheel to be driven, a shaft, gearing for rotating said shaft, an arm pivoted on said shaft for swinging movements, and gearing on said arm driven from said shaft for driving said gear wheel, of a casing enclosing said gear for rotating said shaft, a removable cover for said casing, a casing enclosing said gear wheel and the gearing for driving the same from said shaft, a journal bearing for said shaft in connection with said second casing, and a sleeve connecting said removable cover and said journal bearing and enclosing said shaft.

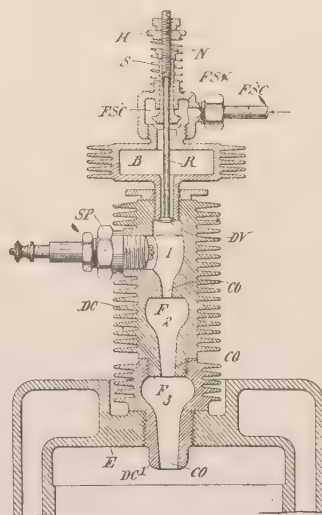
1,422,793. EQUALIZING GEAR FOR LOCOMOTIVES. ELLWOOD M. SHANNON, Bala, Pa., assignor to The Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1922. Serial No. 542,057. 5 Claims. (Cl. 105—82.)



1. The combination in an equalizing gear for locomotives, of a series of springs and levers; links connecting

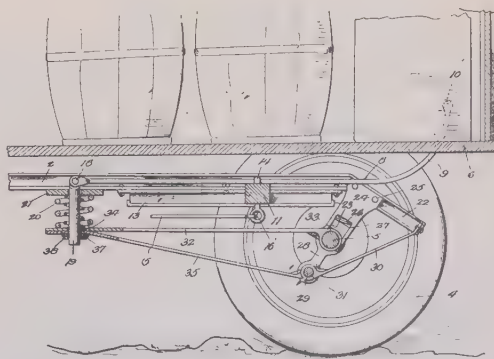
the ends of the levers with the ends of the springs, each connecting link being made in two parts pivotally connected; and two coiled springs between the parts of each link.

1,422,794. IGNITION DEVICE FOR INTERNAL-COMBUSTION ENGINES. FREDERICK ARTHUR SMITH, Brasted, England. Filed Jan. 19, 1920. Serial No. 352,425. 10 Claims. (Cl. 123—143.)



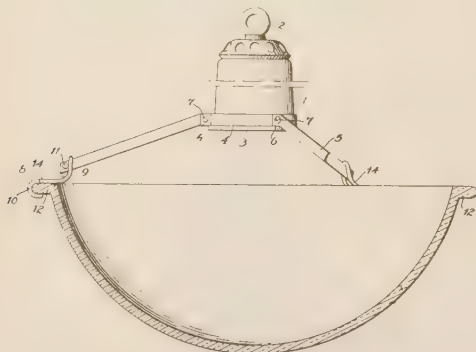
1. An automatic charge-accumulating and regulating device for internal combustion engines, comprising a box, a fuel supply conduit leading thereto, a delivery conduit leading therefrom to the engine cylinder, said delivery conduit comprising a plurality of communicating chambers having baffles therebetween, a delivery valve in said delivery conduit adapted to be opened and shut by variations in pressure in the engine cylinder, and controlling means in the fuel supply conduit preventing the entry of as much fluid to the box as is evacuated therefrom while the delivery valve is open, substantially as described.

1,422,795. AUXILIARY PROPELING MEANS FOR MOTOR VEHICLES. FRANK B. SNYDER, South Altoona, Pa. Filed Oct. 14, 1920. Serial No. 416,945. 3 Claims. (Cl. 280—124.)



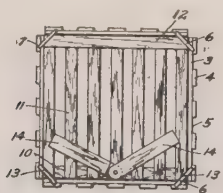
1. In a vehicle, a chassis frame, an axle, a body movable up and down with relation to the frame and axle, a lever supporting the body, means yieldably resisting movement of the lever, and a variable fulcrum for the lever.

1,422,796. LIGHTING-ACCESSORY SUSPENSION. WILLIAM H. SPENCER, New York, N. Y., assignor to I. P. Frink Inc., New York, N. Y., a Corporation of New York. Filed July 9, 1921. Serial No. 483,559. 1 Claim. (Cl. 240—115.)



A suspension device for a lighting accessory comprising a central support having arms hinged thereto at their inner ends at an inclined angle, suspension links at the outer end of the arms said links having their outer ends adapted to clamp the flanged edge of the accessory and being provided at their inner ends with upwardly curving loops sliding freely on the arms, and limiting pins fixed on said arms for preventing the links from sliding off the ends of the arms.

1,422,797. COLLAPSIBLE CRATE. ENOS ELI SUTHERLAND, Los Angeles, Calif. Filed Mar. 31, 1921. Serial No. 457,162. 2 Claims. (Cl. 217—48.)

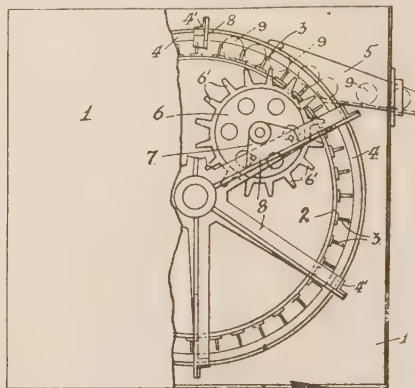


1. A collapsible receptacle comprising four side walls having loop hinge connections at their ends and extending angularly across the corners of the receptacle, end closure members for the receptacle having two opposite corners cut away so that the solid corners may pass inside of two loop hinges and the cut away corners pass the other two loop hinges, and strips pivoted to the ends intermediate of their corners and adapted to swing into positions under the last two hinges and cover the cut away corners and hold the closures in place.

1,422,798. CAN-DISCHARGE DEVICE. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Apr. 3, 1920. Serial No. 370,937. 4 Claims. (Cl. 198—211.)

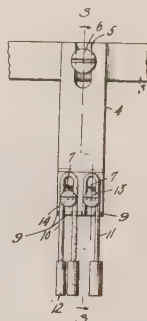
1. In apparatus of the character specified; a casing; a spiral canway therein; and a rotatable reel arranged axially of the spiral canway and having a peripheral series of spaced rails parallel with its axis; with a rotatable wheel mounted within the reel, above the axis thereof, hav-

ing peripheral teeth adapted to project through and beyond the periphery of the reel whereby the wheel is ro-



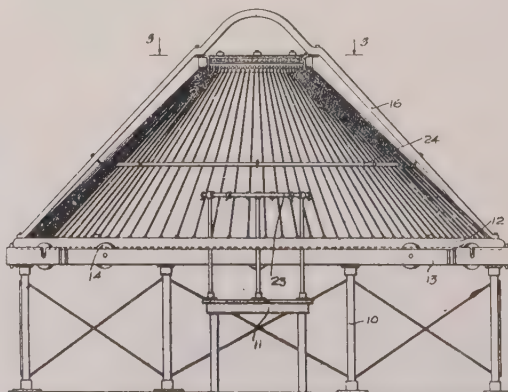
tated by the reel; said teeth projecting sufficiently to lift the cans and eject them from the canway as the cans pass over the wheel, substantially as described.

1,422,799. COMBINATION PLATE AND THREAD GUIDE. GEORGE C. L. TISCH, Elizabeth, N. J. Filed July 29, 1920. Serial No. 399,793. 3 Claims. (Cl. 66—12.)



2. In a thread guide, a plate provided with a transverse notched flange, a threaded opening above the flange and a lug above the opening, a threaded guide supporting member seated in the notched flange and having a U-shaped end engaging the lug, and a screw screwing into the threaded opening of the plate and engaging the supporting member.

1,422,800. SORTING MACHINE. ALBERT VAN COTT and JOHN EVANS, Salt Lake City, Utah. Filed Jan. 26, 1921. Serial No. 440,095. 16 Claims. (Cl. 211—36.)

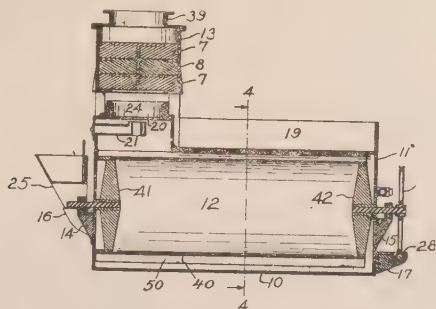


1. In an assorting device of the class described, the combination of a frame, a series of rods secured to the frame and extended upwardly and inwardly toward a common

center, the said rods being so arranged and positioned that an operator adjacent to the upper ends thereof may place upon selected ones of said rods laundry articles or the like which will then slide downwardly and outwardly by gravity and all of the articles on one rod will then stand grouped at the lower outer end of said rod.

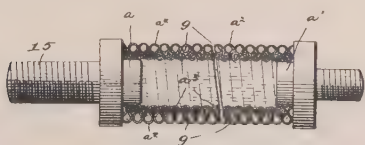
16. An assorting device of the class described comprising a frame, means for rotatably supporting it, a series of rods carried by the frame and extended upwardly and inwardly toward a common center, and an operator's platform mounted adjacent to the common center.

1,422,801. SULPHUR-BURNING APPARATUS. HAROLD DONALD WELLS, Glens Falls, N. Y. Filed Nov. 10, 1920. Serial No. 423,179. 6 Claims. (Cl. 23—1.)



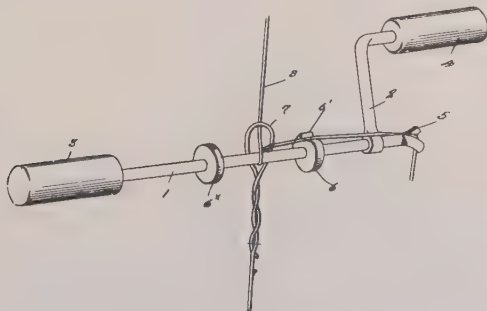
3. A sulphur burner of the type described which comprises a horizontal shell rotating within a casing, the shell at its forward end fitting tightly against the casing, and an air inlet damper positioned in the casing to admit air inside the shell.

1,422,802. THERMAL CUT-OUT DEVICE. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed May 17, 1921. Serial No. 470,274. 2 Claims. (Cl. 200—122.)



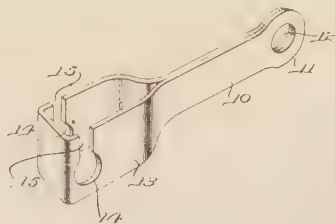
1. An electro-thermal cut-out comprising a thin helically corrugated metal tube, closed at its ends and containing an expansible fluid, and an electric heating coil wound on the body of the tube within the helical recess formed by the corrugation.

1,422,803. SPLICING TOOL. EARL J. WILLIAMS, Geary, Okla. Filed Aug. 21, 1920. Serial No. 405,033. 2 Claims. (Cl. 140—123.5.)



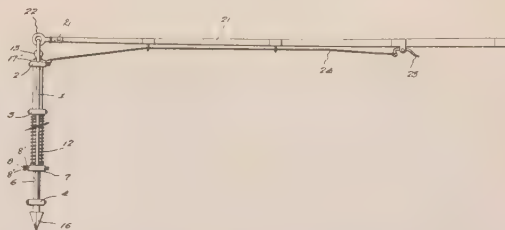
1. A device of the class described comprising a shaft having a crank at one end and a handle at the other end, a reel in the center and a claw formed on said shaft.

1,422,804. ROPE TIGHTENER. WALTER L. WITTE, Escondido, Calif. Filed Oct. 24, 1921. Serial No. 509,947. 1 Claim. (Cl. 24—129.)



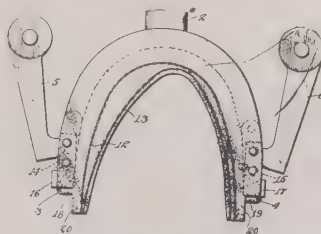
A device of the character described formed from a single strip of resilient metal bent upon itself intermediate its ends to define a substantially rectangular open frame and having its end portions brought together to define an elongated shank, the free end of the shank being formed with a hole and the frame portion being formed in opposite sides with holes and with constricted slots leading into said holes and extending to one edge of the frame.

1,422,805. GIG. JOHN D. WOODS AND DENNIS J. PALMER, Steubenville, Ohio. Filed Apr. 9, 1921. Serial No. 459,935. 2 Claims. (Cl. 43—6.)



2. A device of the class described comprising a gig, including a spring pressed spear rod, a handle member having an eye for engaging the gig, a lever on the handle member, a slidable latch plate on the gig for holding the spear rod in retracted position and a cable connecting the lever with the said latch plate.

1,422,806. BED-LASTER END CLASP. CHARLES F. ADAMS, Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn., a Corporation of Massachusetts. Filed Sept. 9, 1920. Serial No. 409,156. 9 Claims. (Cl. 12—14.1.)

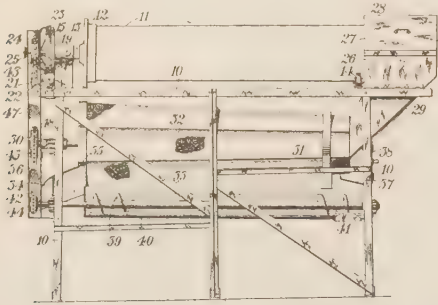


1. An end-lasting device comprising a flexible member having a recess formed in its inner face, and an upper engaging pad fitted within said recess.

1,422,807. SEPARATING OR SORTING APPARATUS. CHARLES JOSHUA LANE, London, England, assignor to Cyril Frank Elwell, London, England. Filed Oct. 1, 1921. Serial No. 504,812. 3 Claims. (Cl. 83—56.)

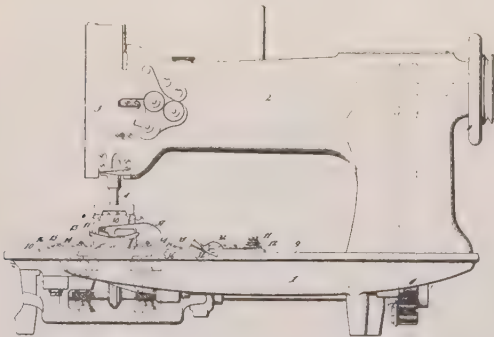
1. In sifting apparatus, the combination of a stand, a drum open at one end rotatably and removably mounted in said stand with its lower surface inclined down-

wardly from the horizontal, and its open end lower than its closed end, a housing surrounding the open end of said drum, a chute leading downwards from said housing, an open-ended conical sieve rotatably mounted in said stand with its axis below and parallel with the axis of said drum, the angle at the apex of the cone of said



sieve being greater than twice the angle of inclination of the drum axis downwards from the horizontal, said sieve being arranged with its smaller open end enclosing the lower end of said chute, a delivery chute disposed below the open larger end of said sieve, and a tray extending lengthwise of said sieve below it to receive material passing through it.

1,422,808. STRIP GUIDING AND CONTROLLING ATTACHMENT FOR SEWING MACHINES. JOHN C. RINGE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 11, 1918. Serial No. 216,482. 11 Claims. (Cl. 112—152.)



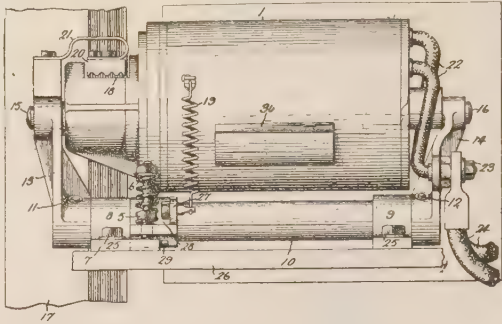
1. A strip-controlling attachment for sewing machines, comprising a strip-guide, edge-diverting means adapted to act upon an edge of a strip beyond the delivery end of said strip-guide and divert said edge from its normal course, and means independent of said strip-guide for at will rendering said edge diverting means effective.

REISSUES.

15,403. ENGINE-STARTING DEVICE. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed May 18, 1921. Serial No. 470,610. Original No. 1,304,252, dated May 20, 1919, Serial No. 849,444, filed July 7, 1914. 25 Claims. (Cl. 290—48.)

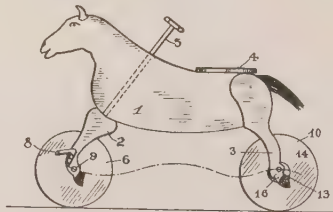
1. Apparatus of the class described, comprising in combination, an engine, a motor adapted to start said engine, an engine-driven member, a motor-driven member radially off-set therefrom, and means operated by the initial rotation of said motor to swing said motor-driven member

into power-transmitting engagement with said engine-driven member through an arc in the plane of the said engine-driven member about an axis which is positioned



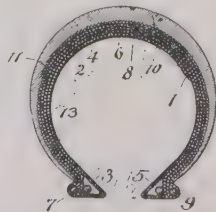
from the surface of said engine-driven member at a distance greater than the length of the effective radius of said motor-driven member.

15,404. CHILD'S VEHICLE. NORBERT CHAPDELAINÉ, Montreal, Quebec, Canada, assignor, by mesne assignments, to International Toy Company, Limited, Montreal, Canada, a Corporation. Filed Mar. 27, 1922. Serial No. 547,250. Original No. 1,335,425, dated Mar. 30, 1920, Serial No. 303,233, filed June 10, 1919. Reissue No. 15,148, dated July 12, 1921, Serial No. 456,204, filed Mar. 28, 1921. 13 Claims. (Cl. 208—42.)



1. In a child's vehicle, a body having legs extending frontwardly and rearwardly therefrom, a wheel journaled centrally in relation to its tread between the front legs and forming a pivot for said body and also a steering member, foot rests projecting from and rigid with said front legs, a rear wheel journaled eccentrically in relation to its tread between said rear legs and forming the propulsion member and a seat situated in a forward position in relation to said rear wheel.

15,405. TIRE. WILLIAM G. FORDING, Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1922. Serial No. 540,607. Original No. 1,401,148, dated Dec. 27, 1921, Serial No. 104,390, filed June 19, 1916. 17 Claims. (Cl. 152—13.)



6. A tire casing having a carcass portion comprising a series of layers of material reversely folded back and forth across the tire progressively from the inner to the outer layer, and separate bead sections enclosed in folds of the material at the beginning and end of each complete layer.

- 15,406. KEY BASE FOR PLASTIC MATERIAL. JONATHAN O. FOWLER, New York, N. Y. Filed May 8, 1922. Serial No. 559,432. Original No. 1,390,774, dated Sept. 13, 1921, Serial No. 255,197, filed Sept. 21, 1918. 17 Claims. (Cl. 72-116.)

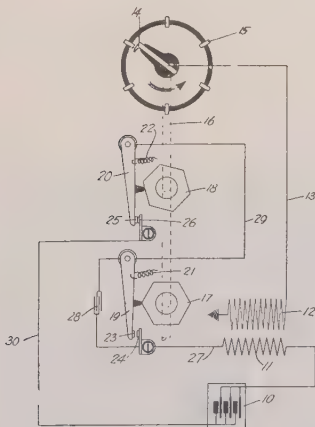


12. In a device of the class described, a base comprising a foundation sheet having a set of spaced wires on one face thereof and another set of spaced wires on the opposite face of said sheet, but running in a different direction from those first named, there being spaced perforations in said sheet at points coinciding with the crossing of the wires of the said two sets, and fused joints uniting the crossing wires at said perforations, to form means to hold a plaster coat.

- 15,407. ALUMINUM ALLOY. FRANCIS C. FRARY, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 27, 1922. Serial No. 564,272. Original No. 1,412,280, dated Apr. 11, 1922, Serial No. 369,695, filed Mar. 29, 1920. 21 Claims. (Cl. 75—1.)

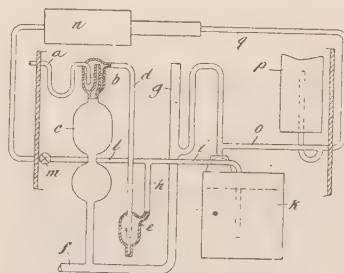
1. An alloy comprising aluminum, copper, magnesium and calcium, calcium not being the main constituent.

- 15,408. IGNITION SYSTEM. WILLIAM O. KENNINGTON, London, England, assignor to The Remy Electric Company, a Corporation of Indiana. Filed Feb. 27, 1922. Serial No. 539,778. Original No. 1,347,511, dated July 27, 1920, Serial No. 255,046, filed Sept. 21, 1918. 6 Claims. (Cl. 123-48.)



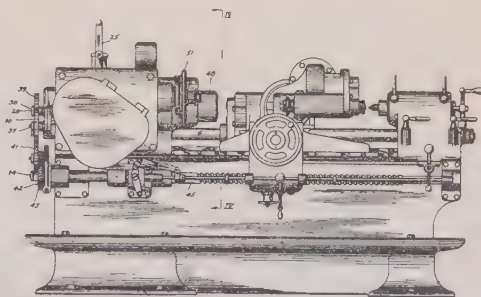
1. In an ignition system, a non-back-firing device comprising a primary coil with a source of current therefor, and a secondary coil with connections for producing sparking impulses; of a main make and break point, and an auxiliary make and break point, both in series in said primary circuit; means for operating said make and break points in quick succession, the main make and break being operated first in the normal rotation of the engine and last in the reverse rotation, with a condenser shunted around the contact points of the main make and break point only, substantially as and for the purpose described.

- 15,409. GAS-ANALYZING APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Aktiebolaget Ingeniörs-firma Fritz Egnell, Stockholm, Sweden. Filed Mar. 3, 1922. Serial No. 540,914. Original No. 1,302,224, dated Apr. 29, 1919, Serial No. 145,206, filed Jan. 29, 1917. 7 Claims. (Cl. 23—3.)



1. Automatically operated gas analyzing apparatus for two or more individual analyses of a gas mixture streaming through the apparatus in one direction only, comprising first measuring apparatus, absorption apparatus, second or final measuring apparatus and registering apparatus, means for connecting said apparatuses to allow the flow of gas through the same in two channels having one or more parts of the apparatus in common but each channel having other of said parts independent of the other channel, and controlling means for causing the gas flow to take one or the other channel through the first and final measuring apparatus always in the same direction.

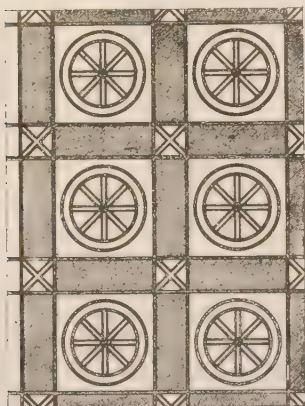
- 15,410. THREAD-MILLING MACHINE. CHARLES H. SCHURR and ERNEST J. LEES, Cleveland, Ohio, assignors to The Lees-Bradner Co., Cleveland, Ohio. Filed May 20, 1922. Serial No. 562,527. Original No. 1,355,854, dated Oct. 19, 1920, Serial No. 210,633, filed Jan. 7, 1918. 8 Claims. (Cl. 10—154.)



1. A thread milling machine comprising a work spindle, a tool spindle, means for rotating each, a movable support for one of said spindles, a lead screw operatively connected with said support and adapted to actuate the same, intermediary spindles, a train of gearing upon said spindles respectively in part adapted to connect said work rotating means with said lead screw, a plurality of said intermediary spindles being rotatable at different speeds and having projecting ends to serve as alternative driving studs, one unit of said train of gearing being detachably securable upon one of the projecting spindle ends whereby one or the other of the latter becomes an active unit of said connection.

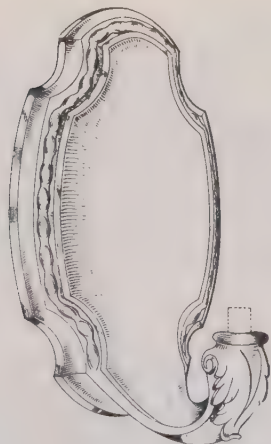
DESIGNS.

61,186. DRESS FABRIC. ALBINA CABALKA, Geddes, S. Dak. Filed Mar. 23, 1922. Serial No. 1,354. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a dress fabric, as shown.

61,187. WALL BRACKET FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,034. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a wall bracket for lighting fixtures as shown.

61,188. PLATE FOR WALL BRACKETS FOR LIGHTING FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Feb. 10, 1921. Serial No. 444,035. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a plate for wall brackets for lighting fixtures as shown.

61,189. LACE. ELIZABETH ANDERSON DAVIS, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 1,565. Term of patent $3\frac{1}{2}$ years.



The ornamental design for lace as herein shown and described.

61,190. FABRIC. WILLIAM DOWLING, New York, N. Y., assignor to Golding Bros. Company, New York, N. Y., a Corporation of New York. Filed Mar. 30, 1922. Serial No. 1,459. Term of patent 7 years.



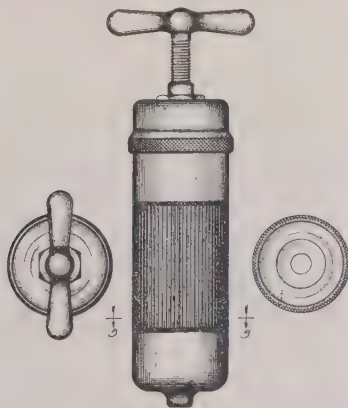
The ornamental design for a fabric, as shown and described.

61,191. EMBLEM, BADGE, BROOCH, PIN, CUFF BUTTON, WATCH FOB, OR ARTICLE OF SIMILAR NATURE. CHARLES B. DYER, Indianapolis, Ind. Filed Mar. 27, 1922. Serial No. 1,421. Term of patent 14 years.



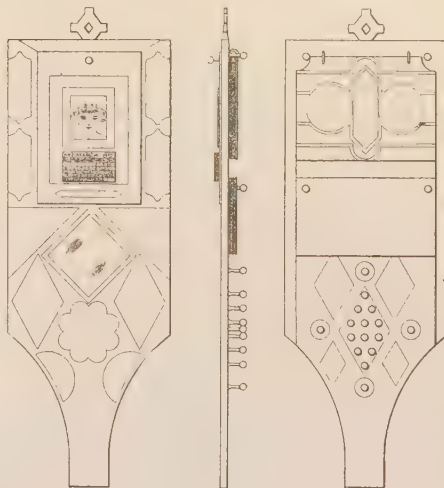
The ornamental design for emblem, badge, brooch, pin, cuff button, watch fob, or article of similar nature, as shown.

61,192. GREASE GUN. DOUGLAS F. FESLER, Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company, a Corporation of Delaware. Filed June 30, 1919. Serial No. 307,862. Term of patent 14 years.



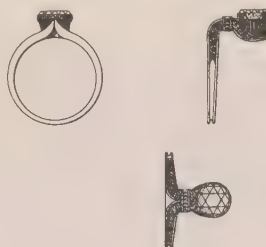
The ornamental design for a grease gun as shown.

61,193. COMBINED WRITING PAD AND ADVERTISING DEVICE OR ARTICLE OF SIMILAR NATURE. RICHARD M. GAFFNEY, St. Louis, Mo. Filed Mar. 11, 1922. Serial No. 1,119. Term of patent 14 years.



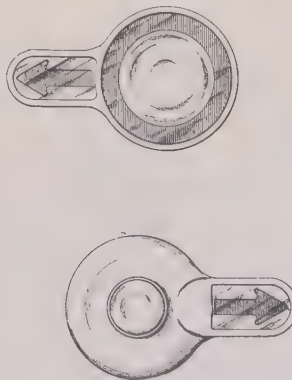
The ornamental design for a combined writing pad and advertising device or article of similar nature, substantially as shown.

61,194. RING. WALLACE G. GINDER, Los Angeles, Calif., assignor to Brock and Company, Los Angeles, Calif., a Corporation of California. Filed June 1, 1920. Serial No. 385,836. Term of patent 14 years.



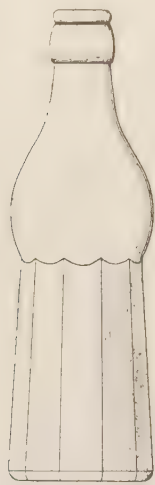
The ornamental design for a ring, as shown.

61,195. COMBINATION MIRRORSCOPE, PARKING LIGHT, and DIRECTION INDICATOR. WILLIAM P. HAMMOND, Maplewood, N. J. Filed May 11, 1921. Serial No. 468,690. Term of patent 14 years.



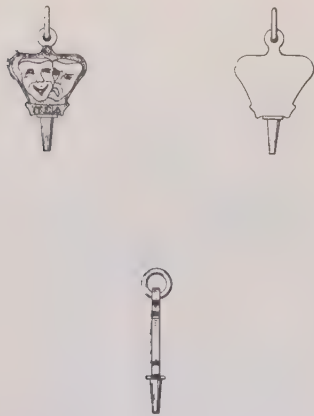
The ornamental design for a combination mirrorscope, parking light, and direction indicator, as shown and described.

61,196. BOTTLE. CLAUDE JOHNSTONE, St. Louis, Mo. Filed Aug. 8, 1921. Serial No. 490,802. Term of patent 14 years.



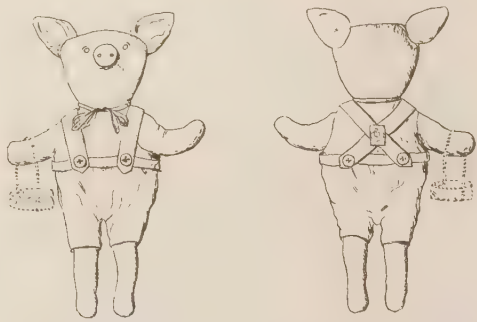
An ornamental design for a bottle as shown.

61,197. BADGE, BUTTON, CHARM, EMBLEM, PIN, OR ARTICLE OF SIMILAR NATURE. THOMAS C. KATKE, Milwaukee, Wis., assignor to Bunde & Upmeyer Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1922. Serial No. 786. Term of patent 7 years.



The ornamental design for a badge, button, charm, emblem, pin, or article of similar nature, as shown.

61,198. PIG DOLL. ISABELLA KERBY, East Helena, Mont. Filed Feb. 20, 1922. Serial No. 796. Term of patent 7 years.



The ornamental design for a pig doll as shown.

61,199. SAFETY PAPER. CHARLES KRES, Cleveland, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,333. Term of patent 3½ years.



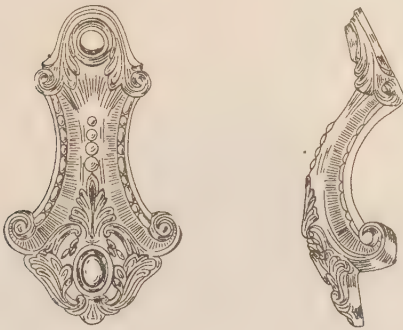
The ornamental design for safety paper, as shown.

61,200. LACE. JOHN LANGENEGGER, New York, N. Y., assignor to Blanck & Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 1,563. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

61,201. LIGHTING-FIXTURE ARM. LOUIS LEVINE, Brooklyn, N. Y. Filed Oct. 8, 1921. Serial No. 506,529. Term of patent 7 years.



The ornamental design for a lighting fixture-arm, as shown.

61,202. GLOBE FOR LIGHTING FIXTURES. LOUIS B. LONDON, New York, N. Y. Filed Oct. 8, 1921. Serial No. 506,528. Term of patent 7 years.



The ornamental design for a globe for lighting fixtures, as shown.

61,203. PHONOGRAPH CABINET. LACHLAN MAC-LACHLAN, Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1921. Serial No. 513,597. Term of patent 7 years.



The ornamental design for a phonograph cabinet, as shown.

61,204. BADGE, PIN, BUTTON, OR A SIMILAR ARTICLE OF MANUFACTURE. WILLIAM L. MANN, New York, N. Y. Filed Feb. 12, 1921. Serial No. 444,611. Term of patent 3½ years.



The ornamental design for a badge, pin, button, or a similar article of manufacture, as shown.

61,205. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,317. Term of patent 3½ years.



The ornamental design for safety paper, as shown.

61,206. DOLL. ANGELINE NORQUIST, Minneapolis, Minn. Filed Dec. 8, 1921. Serial No. 521,041. Term of patent 7 years.



The ornamental design for a doll, as shown.

61,207. DOLL. COEA O. OLIVER, Oklahoma, Okla. Filed Feb. 28, 1922. Serial No. 942. Term of patent 3½ years.



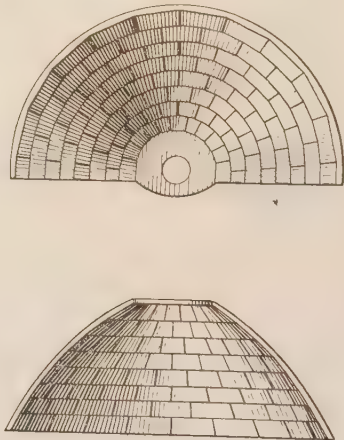
The ornamental design for a doll substantially as shown.

61,208. FINGER RING. DAVID ORNSTEIN, New York, N. Y. Filed Mar. 13, 1922. Serial No. 1,137. Term of patent 3½ years.



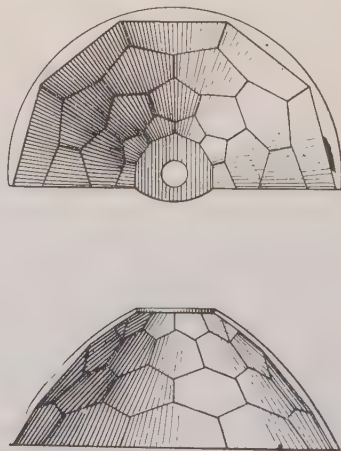
The ornamental design for a finger ring, as shown.

61,209. LIGHT DIFFUSER. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,146. Term of patent 3½ years.



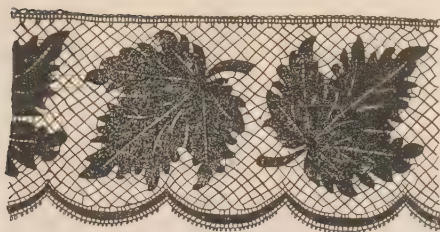
The ornamental design for a light diffuser, substantially as shown.

61,210. LIGHT DIFFUSER. OTHO M. OTTE, Tarentum, Pa. Filed Feb. 12, 1920. Serial No. 358,147. Term of patent 3½ years.



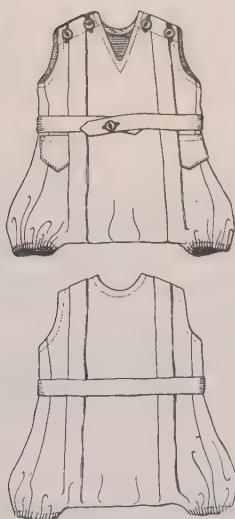
The ornamental design for a light diffuser, substantially as shown.

61,211. LACE. SAMUEL H. PAGE, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Feb. 3, 1922. Serial No. 514. Term of patent 7 years.



The ornamental design for lace substantially as shown.

61,212. OUTER GARMENT. KATHARINE LESLIE POWELL, Amherst, Mass. Filed Jan. 31, 1922. Serial No. 470. Term of patent $3\frac{1}{2}$ years.



The ornamental design for an outer garment, as shown.

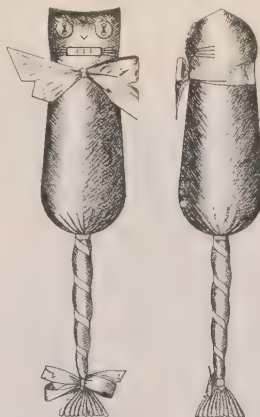
300 O. G.—24

61,213. SAUTOIR WATCH HOLDER. GUSTAV RIEKINGER, Toronto, Ontario, Canada, assignor to W. A. Milligan and Company, Limited, Toronto, Ontario, Canada. Filed Feb. 18, 1922. Serial No. 766. Term of patent $3\frac{1}{2}$ years.



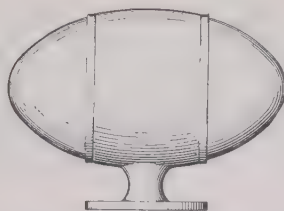
The ornamental design for a sautoir watch holder as shown.

61,214. TOY. ABRAHAM H. SHENK, Joliet, Ill. Filed Nov. 25, 1921. Serial No. 517,797. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a toy, as shown.

61,215. PARKING LIGHT. HENRY HOWARD TAYLOR, Milwaukee, Wis. Filed Dec. 20, 1920. Serial No. 432,113. Term of patent $3\frac{1}{2}$ years.



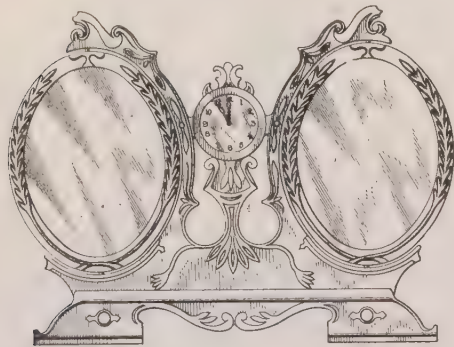
The ornamental design for a parking light, as shown.

61,216. COMBINED PHONOGRAPH AND LAMP STAND. SOLOMON TRUSTMAN, Detroit, Mich., assignor of one-half to Amos Emsley, Detroit, Mich. Filed Nov. 30, 1921. Serial No. 518,997. Term of patent 14 years.



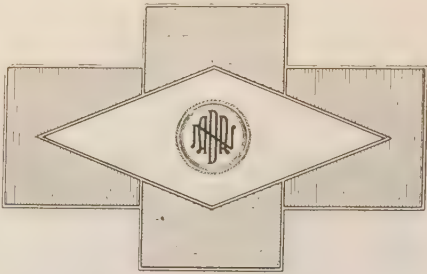
The ornamental design for a combined phonograph and lamp stand as shown.

61,217. COMBINATION CLOCK, PICTURE, AND MIRROR FRAME. JOSEPH URBANEK, Chicago, Ill. Filed Apr. 6, 1922. Serial No. 1,562. Term of patent 14 years.



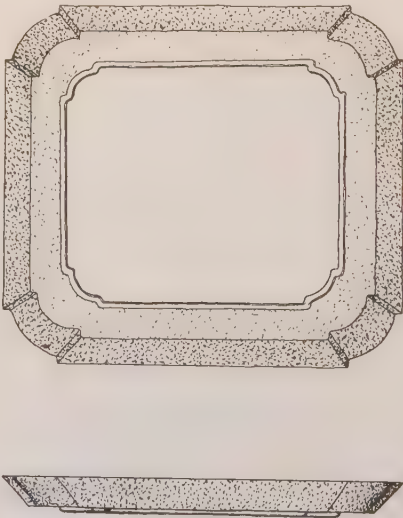
The ornamental design for a combination clock, picture, and mirror frame, as shown.

61,218. EMBLEM, SIGN, BADGE, BUTTON, OR ARTICLE OF SIMILAR NATURE. CHRISTY A. VANE, St. Louis, Mo., assignor to National Automobile Dealers' Association, St. Louis, Mo., an Association of Illinois. Filed Apr. 14, 1922. Serial No. 1,747. Term of patent 14 years.



The ornamental design for an emblem, sign, badge, button, or article of similar nature, as shown.

61,219. PLAQUE. HARRY W. WHIPPLE, Kansas City, Mo. Filed Mar. 24, 1920. Serial No. 368,415. Term of patent 3½ years.



The ornamental design for a plaque, as shown and described.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 11, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARENCE C. HAY, Como, Miss. Filed Apr. 11, 1919.

HAY-PO

Any and all right to the before-and-after pictures shown on the labels filed with the application, to any before-and-after pictures, and to any and all matter other than the word "Hay-Po" is disclaimed.

Particular description of goods.—Hair Dressing.
Claims use since Feb. 27, 1917.

Ser. No. 129,545. (CLASS 45. BEVERAGES, NONALCOHOLIC.) GRONE & Co., St. Louis, Mo. Filed Mar. 11, 1920.

Gee-Whizz

Particular description of goods.—Beverages, More Specifically Soda Water.
Claims use since Feb. 25, 1920.

Ser. No. 129,573. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCHERER, BURNELL & SCHERER, INC., New York, N. Y. Filed Mar. 11, 1920.



No claim is made to words "Trade Mark" and "Industrial Laboratories," "Tru-Blu," and letters "N. Y." apart from mark shown in drawing.

Particular description of goods.—Laundry Blue or Bluing.

Claims use since Nov. 10, 1919.

Ser. No. 131,334. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE C. M. KEMP MFG. Co., Baltimore, Md. Filed Apr. 19, 1920.



Particular description of goods.—Gas Apparatus and Gas Burners, Particularly Apparatus for Mixing Air and Gas to Form Fuel Gas and Burners for Heating Purposes.
Claims use since on or about Jan. 1, 1911.

Ser. No. 132,736. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FLEXLUME SIGN COMPANY, Buffalo, N. Y. Filed May 21, 1920.

DAY-NIGHT

Particular description of goods.—Electrically-Illuminated Signs.

Claims use since March, 1912.

Ser. No. 133,015. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WRIGHT & ALEXANDER COMPANY, Rochester, N. Y. Filed May 27, 1920.

WRIALCO

Trade-mark "Wrialco."

Particular description of goods.—Metal Inserts for Anchoring Piping and Shafting, Etc., to Concrete Construction.

Claims use since on or about Jan. 24, 1908.

Ser. No. 134,112. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CARAVEL COMPANY, INC., New York, N. Y. Filed June 24, 1920.

CARAVEL COMPANY, INC.



Particular description of goods.—Ice and Roller Skates, Baseballs, Bats, Baseball and Sporting Mitts, Footballs, Protectors and Pads for All Parts of the Body in Sports, Goal Posts; Golf Balls, Sticks, and Bags; Medicine Balls; Squash, Hand, and Tennis Balls; Rackets, Nets, Court Markers; Exercising Apparatus—Namely, Dumb-Bells, Indian Clubs, Exercising Poles, Parallel Bars, and Horses; Fishing Tackle—Namely, Flies, Reels, Nets, Rods, and Baskets; Playing Cards and Card Games, Polo Sticks and Balls; Archery Bows, Crossbows, Arrows, and Accoutrements; Toy Printing Presses, Toy Sewing Machines; Cricket Bats, Balls, Gloves, Gauntlets, Leg Guards, Stumps; Croquet Balls, Mallets, Arches, Posts, Clips; Hockey Sticks, Boomerangs, Shuttlecocks, Toy Wheelbarrows, Stuffed Animals, Puzzles, Soldiers, Toy Building Blocks, Mechanical Toys, Elastic and Inflated Toys, Balls, Balloons, Favors, Ankle and Wrist Supporters, Crab and Fish Traps and Nets, and Game Tables.

Claims use since about June 1, 1918.

Ser. No. 139,438. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

FEZ

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since about Aug. 1, 1910.

Ser. No. 139,439. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

FLYER

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1904.

Ser. No. 139,440. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

MUTUAL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids, and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Aug. 1, 1905.

Ser. No. 139,441. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

ORFULO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1916.

Ser. No. 139,442. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

PANDORA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Sept. 1, 1912.

Ser. No. 139,443. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

PIGMENT

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1904.

Ser. No. 139,444. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

Purchase

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Aug. 1, 1900.

Ser. No. 139,445. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

UTOPIA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about July 1, 1906.

Ser. No. 139,446. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920.

VERILO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1916.

Ser. No. 139,766. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

ADMIRAL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since Jan. 1, 1905.

Ser. No. 139,767. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

ADAMANT

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1897.

Ser. No. 139,769. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.



No claim to the word "Brushes." The lining on drawing denotes shading and does not represent color.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1884.

Ser. No. 139,770. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

BALTIC

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1906.

Ser. No. 139,771. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

BEEKMAN

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1893.

Ser. No. 139,772. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

BELGRADE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1890.

Ser. No. 139,773. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

BLACK & TAN

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1891.

Ser. No. 139,774. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

CRYSTAL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1891.

Ser. No. 139,775. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

DIANA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Mar. 1, 1900.

Ser. No. 139,776. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920.

GILT EDGE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1897.

Ser. No. 139,825. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

IRIS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1908.

Ser. No. 139,826. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

KOMO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1906.

Ser. No. 139,828. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

LOTUS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1908.

Ser. No. 139,832. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

TOP NOTCH

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1895.

Ser. No. 139,834. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

VIKING

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1908.

Ser. No. 139,835. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

YAMPAH

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1900.

Ser. No. 140,154. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1920.

OWL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1889.

Ser. No. 140,155. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 24, 1920.



No claim made to a representation of a brush apart from the other features of the mark.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1889.

Ser. No. 140,228. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

AFRIC

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1899.

Ser. No. 140,229. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

AGO

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1899.

Ser. No. 140,230. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920. Under ten-year proviso.

OXFORD

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1892.

Ser. No. 140,231. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.

P+A.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1887.

Ser. No. 140,235. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1920.



No claim is made to use of letter "A" apart from the mark shown.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1905.

Ser. No. 140,421. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1920.

P. O. K.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1884.

Ser. No. 140,422. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1920.

P. X.

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1884.

Ser. No. 141,049. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WHITE BLUFFS WAREHOUSE CO., White Bluffs, Wash. Filed Dec. 13, 1920.



Particular description of goods.—Fresh Apples.
Claims use since Sept. 1, 1920.

Ser. No. 141,318. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed Dec. 20, 1920.

FEATHER WEIGHT

Particular description of goods.—Shovels and Scoops.
Claims use since Apr. 10, 1914.

Ser. No. 141,753. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEACON MANUFACTURING COMPANY, Providence, R. I. Filed Jan. 3, 1921.

Beacon Blankets
make Warm Friends

Particular description of goods.—Blankets; Plaid, Indian, Camping, Government, Army, Navy, Crib, and Bath-Robe Blankets; Jacquard Comfortables, Traveling Rugs, Baby Bags for Use as Coverings, and Bath-Robe Flannel and Blanket Goods in the Piece, All Made Wholly of Cotton.

Claims use since August, 1919.

Ser. No. 143,491. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. GOLDBER & Co., New York, N. Y. Filed Feb. 12, 1921.



Apart from mark shown exclusive use is disclaimed as to the representation of the goods and the words "The

Double Strength," "Human Hair Net," "See how it is knotted from double strands of real human hair," "Shape," and "Color," and "Doubles the Wear."

Particular description of goods.—Human-Hair Nets.
Claims use since Jan. 15, 1921.

Ser. No. 144,023. (CLASS 17. TOBACCO PRODUCTS.) THE JOHN C. GUY COMPANY, INCORPORATED, Lexington, Ky. Filed Feb. 25, 1921.



The trade-mark consists of the legend "Seal of Lexington." No claim is made to the word "Lexington" apart from the legend "Seal of Lexington." The surface lines in drawing are for shading only.

Particular description of goods.—Cigars.
Claims use since about Jan. 1, 1917.

Ser. No. 144,148. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE PERKINS-CAMPBELL COMPANY, Cincinnati, Ohio. Filed Feb. 28, 1921. Under ten-year proviso.



Particular description of goods.—Equestrian Equipments, Notably Saddles, Bridles, Bits, Stirrups, Saddle-Cloths, Halters, and Parts of the Above.

Claims use since 1878.

Ser. No. 145,873. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BOOTH MILLS, Lowell, Mass. Filed Apr. 8, 1921.

**KASEMENT
SKRIM**

No claim is made to word "Skrim" apart from the mark shown.

Particular description of goods.—Scrim in the Piece.
Claims use since Feb. 1, 1921.

Ser. No. 146,286. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE ASHTABULA BOW SOCKET COMPANY, Ashtabula, Ohio. Filed Apr. 18, 1921.

"CLEAR VISION"

Particular description of goods.—Bow Sockets for Vehicle Tops and Fittings Therefor.

Claims use since November, 1920.

Ser. No. 146,387. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PATON, CALVERT & Co., LIMITED, Liverpool, England. Filed Apr. 19, 1921.



The lining forming background of the mark is for shading and does not represent any particular color.

Particular description of goods.—Blacking in Liquid or Paste Form, Patent-Leather Polish, Metal Polish, Plate Powder, Harness Composition or Blacking, Knife Powder, Prepared Polishing Cloths, and Saddle Paste.

Claims use since on or about Aug. 26, 1916.

Ser. No. 146,844. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE POCKOCK MANUFACTURING COMPANY, LIMITED, Hamilton, Ontario, Canada. Filed Apr. 27, 1921.



No claim made to words "Safe," "Silent," and "Sanitary" nor to the words "Kork Stair Treads" apart from the mark shown.

Particular description of goods.—Cork Stair Treads.

Claims use since Mar. 1, 1921.

Ser. No. 147,359. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MARK J. MURPHY, Chicago, Ill. Filed May 7, 1921.

RELIANCE

Particular description of goods.—Malt Extract.

Claims use since Apr. 1, 1919.

Ser. No. 148,290. (CLASS 39. CLOTHING.) R. H. MACY & Co. Inc., New York, N. Y. Filed May 26, 1921.

MAY C MAID

Particular description of goods.—Aprons.

Claims use since May 21, 1921.

Ser. No. 148,409. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

CYCLOPS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1893.

Ser. No. 148,410. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

SUPREME

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Sept. 1, 1901.

Ser. No. 148,411. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

ULYSSES

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Jan. 1, 1893.

Ser. No. 148,412. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed May 28, 1921.

USONA

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Apr. 1, 1918.

Ser. No. 150,131. (CLASS 43. THREAD AND YARN.)
BAY STATE THREAD WORKS, Springfield, Mass. Filed
July 8, 1921.



No claim made to the representation of the spools
of thread shown in drawing.

Particular description of goods.—Cotton Threads.

Claims use since on or about Apr. 1, 1921.

Ser. No. 150,211. (CLASS 45. BEVERAGES, NON-
ALCOHOLIC.) ANHEUSER-BUSCH, INCORPORATED, St.
Louis, Mo. Filed July 11, 1921.

KAFFO

Particular description of goods.—Maltless Carbonated
Coffee Beverage Sold as a Soft Drink.

Claims use since Jan. 7, 1921.

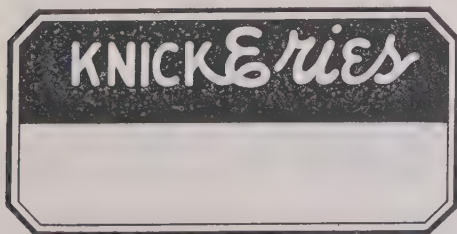
Ser. No. 150,927. (CLASS 46. FOODS AND INGREDI-
ENTS OF FOODS.) JOSEPH H. OVERHAUSER, Portland,
Oreg. Filed July 25, 1921.

Trail

Particular description of goods.—Candy.

Claims use since Sept. 28, 1915.

Ser. No. 150,937. (CLASS 39. CLOTHING.) STRAUS
Mfg. Co., Erie, Pa. Filed July 25, 1921.



Particular description of goods.—Pants.

Claims use since 1882.

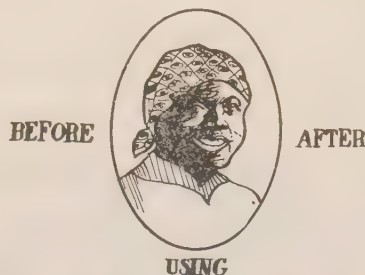
Ser. No. 151,763. (CLASS 39. CLOTHING.) ARTHUR
LITT & Co., New York, N. Y. Filed Aug. 13, 1921.

Wear=Ever

Particular description of goods.—Men's Suits, Trousers,
and Overcoats.

Claims use since about July 1, 1921.

Ser. No. 151,918. (CLASS 4. ABRASIVE, DETERGENT,
AND POLISHING MATERIALS.) PEARL KURTZINGER,
doing business as L & P Soap Company, Detroit, Mich.
Filed Aug. 18, 1921.



The "WORLD'S WONDER" SOAP KRUMBLES

No claim is made to the words "Soap Krumbles," "Be-
fore," and "After Using" apart from mark shown. The
picture is fanciful.

Particular description of goods.—Soap.

Claims use since May 5, 1921.

Ser. No. 151,948. (CLASS 39. CLOTHING.) INDIVIDUAL
TAILORING COMPANY, Cincinnati, Ohio. Filed Aug. 19,
1921.

Individual Tailoring Co.

Factory to you

No claim to the words "Individual Tailoring Co.
Factory to You" except as shown on drawing.

Particular description of goods.—Men's and Young
Men's Clothing Consisting of Overcoats, Raincoats, Coats,
Vests, and Trousers.

Claims use since Mar. 15, 1921.

Ser. No. 152,423. (CLASS 46. FOODS AND INGREDI-
ENTS OF FOODS.) HOLBERT & HOLBERT, doing busi-
ness as Holbert Syrup Co., Manhattan, Kans. Filed
Aug. 31, 1921.

Gold Seal

Particular description of goods.—Syrup Made from Pure
Sugar Cane Flavored with Maple Flavoring for Cooking
Purposes.

Claims use since Aug. 1, 1921.

Ser. No. 153,112. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN SEXTON AND COMPANY, Chicago, Ill. Filed Sept. 19, 1921.

EDELWEISS

Particular description of goods.—Crushed Fruits, Fruit Sirups, Flavoring Extracts, Colors, Concentrated Root-Beer Stock and Extract, Cocoa Stock, and Liquid Fudges for Soda-Fountain Use and for Preparing Soft Drinks, and Flavoring Sirups for Soda Water and Other Nonalcoholic Beverages; Liquid Phosphate, Fruit and Imitation-Fruit Phosphates for Preparing Nonalcoholic Beverages, Extract for Making Root Beer, Cider, and Grape Juice.

Claims use since Oct. 1, 1904.

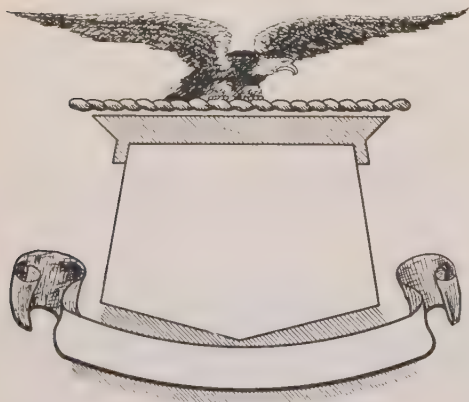
Ser. No. 153,121. (CLASS 39. CLOTHING.) ANSBACHER & VAN BAALEN, New York, N. Y. Filed Sept. 20, 1921.

VANTEX

Particular description of goods.—Hosiery.

Claims use since Sept. 1, 1921.

Ser. No. 153,239. (CLASS 39. CLOTHING.) THE COMER MANUFACTURING COMPANY, Dayton, Ohio. Filed Sept. 23, 1921.



Particular description of goods.—Raincoats, Cravettes, Gabardines, Bath Robes, and Ladies' Skirts.

Claims use since fall of 1914.

Ser. No. 153,255. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE NUNALLY COMPANY, Atlanta, Ga. Filed Sept. 23, 1921.

HOME FOLKS ASSORTMENT

No claim made to word "Assortment" apart from the mark shown.

Particular description of goods.—Candy.

Claims use since 1911.

Ser. No. 153,308. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOTT & WOOD CO., Wisconsin Rapids, Wis. Filed Sept. 24, 1921.

Heathmade

Particular description of goods.—Butter.

Claims use since Apr. 4, 1920.

Ser. No. 153,677. (CLASS 39. CLOTHING.) J. A. MIGEL, INC., New York, N. Y. Filed Oct. 3, 1921.



GOLF-LINKS

Particular description of goods.—Ladies' and Misses' Silk Shirt Waists, Suits, Blouses, Skirts, Dresses, Petticoats, Nightgowns, and Underwear Made of Textile Fabrics, and Bathing Suits Made of Silk; Men's and Boys' Neckties, Pyjamas, Dressing Gowns, Nightgowns, Blouses, and Underwear Made of Textile Fabrics.

Claims use since July 14, 1921.

Ser. No. 153,742. (CLASS 39. CLOTHING.) ABE MILLMAN, INC., New York, N. Y. Filed Oct. 4, 1921.

Duo-Mode

KNICKER DRESS

No claim made to word "Knicker" or the word "Dress" apart from mark except in the combination "Knicker Dress."

Particular description of goods.—Outer Garment for Females—Namely, a Dress with Divided Skirt.

Claims use since Sept. 12, 1921.

Ser. No. 153,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE J. MCCABE, doing business as McCabe Drug Co., Nekoma, N. Dak. Filed Oct. 8, 1921.



Particular description of goods.—Medicines for External Use for the Treatment of Coughs, Colds, Whooping Cough, Bronchitis, Asthma, Pleurisy, Neuralgia, Sore Throat, Frosted Feet, Rheumatism, Sore Joints, and Sore Muscles.

Claims use since February, 1920.

Ser. No. 154,083. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EMANUEL KLEIN, New York, N. Y. Filed Oct. 14, 1921.

ALIVOLA



Particular description of goods.—Pure-Fat Salad Oil and Cooking Oil.

Claims use since Apr. 10, 1920.

Ser. No. 154,318. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES B. McCOMB, Scarsdale, N. Y. Filed Oct. 19, 1921.

Gladden

Particular description of goods.—Liquid Food-Flavoring Extracts.

Claims use since January, 1915.

Ser. No. 154,587. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GRENNAN CAKE CORPORATION, Cleveland, Ohio, Detroit, Mich., St. Paul and Minneapolis, Minn., and Chicago, Ill. Filed Oct. 26, 1921.



Particular description of goods.—Cakes, Cookies, and Fried Cakes.

Claims use since on or about Nov. 1, 1918.

Ser. No. 154,837. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass. Filed Oct. 31, 1921. Under ten-year proviso.

NEWPORT

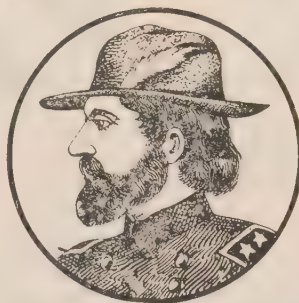
"Newport" trade-mark.

Particular description of goods.—Candy.

Claims use since 1887.

Ser. No. 154,883. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAY BROS. CO., Fremont, Nebr. Filed Nov. 1, 1921.

PATHFINDER



The portrait is that of Gen. John C. Fremont, (deceased).

Particular description of goods.—Canned Fruits, Canned Vegetables, Rolled Oats, Olives, Peanut Butter, Spices, Food-Flavoring Extracts, Catsup, Pickles, Prepared Mustard, Fruit Preserves, and Candies.

Claims use since July 1, 1921.

Ser. No. 154,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KEYSTONE FLOUR CO., INCORPORATED, Philadelphia, Pa. Filed Nov. 3, 1921.



Particular description of goods.—Wheat Flour.

Claims use since May 1, 1921.

Ser. No. 155,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCE FRUIT COMPANY, Eustis, Fla.. Filed Nov. 4, 1921.



Particular description of goods.—Fresh Oranges, Grapefruits, and Tomatoes.

Claims use since Nov. 1, 1921.

Ser. No. 155,020. (CLASS 39. CLOTHING.) HELMHOLZ MITTEN COMPANY, Cudaby, Wis. Filed Nov. 4, 1921.

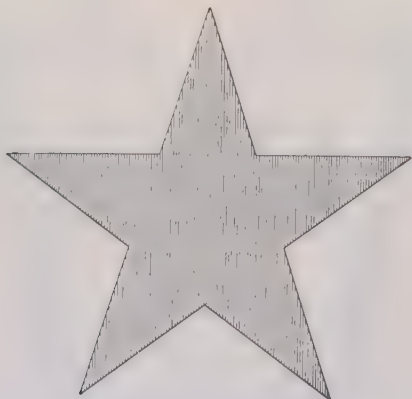


No claim is made to words "Back Seam" apart from mark shown.

Particular description of goods.—Gloves and Mittens Made of Leather and Fabric.

Claims use since Oct. 13, 1919.

Ser. No. 155,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. H. ECKERT, Los Angeles, Calif. Filed Nov. 5, 1921.



Trade-mark is in the form of a red star.

Particular description of goods.—Meat and Bone Scraps for Use as Poultry Feed.

Claims use since about Mar. 1, 1919.

Ser. No. 155,201. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MI CANDY COMPANY, New York, N. Y. Filed Nov. 8, 1921.



Particular description of goods.—Sugar-Toasted Peanuts.

Claims use since Jan. 1, 1920.

Ser. No. 155,288. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE WICKERCRAFT, Pasadena, Calif. Filed Nov. 10, 1921.

Wickercraft

Particular description of goods.—Furniture Made of Reed, Rattan, and Fiber—Namely, Chairs, Rockers, Settees, Davenports, Stools, Day Beds, Chaise Lounges, Couches, Dinners, Ferneries, Telephone Stools, Sewing Stands, Costumers, Desks, Tables, Tea Wagons, Hampers, Bookcases, Beds, Dressers, Dressing Tables, and Porch Swings.

Claims use since Mar. 9, 1917.

Ser. No. 155,363. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PACKARD ENGINEERING Co., Cleveland, Ohio. Filed Nov. 14, 1921.

MOTORIGHT

Particular description of goods.—Shock Absorbers and Radiator Shutters.

Claims use since Sept. 1, 1921.

Ser. No. 155,415. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NAAMLOOZE VENNOOTSCHAP TOT EXPLOITATIE VAN CACAO - EN CHOCOLAADFABRIEKEN MAATSCHAPPIJ A. DRIESSEN, Rotterdam, Netherlands. Filed Nov. 15, 1921.



No claim to words "Pure," "Soluble," "Cocoa," "Cacao," or "Rotterdam" apart from mark shown nor to pictorial representation of a container.

Particular description of goods.—Chocolate, Cocoa, and Cacao.

Claims use since 1906.

Ser. No. 155,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) IKE K. FRIEDMAN, Fort Worth, Tex. Filed Nov. 19, 1921.

BREKFAST

Particular description of goods.—Oranges in Their Natural State and Preserved Oranges.

Claims use since Oct. 15, 1921.

Ser. No. 155,673. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ESMOND MILLS, New York, N. Y. Filed Nov. 21, 1921.

ESMOND

Particular description of goods.—Blankets, Blanket Fabrics in the Piece, Cotton Piece Goods, Ribbons in the Piece; Robes in the Nature of Auto Rugs, Steamer Rugs or the Like; Rugs, Comfortables, and Mattress Protectors.

Claims use since 1907.

Ser. No. 155,682. (CLASS 39. CLOTHING.) THE GOVERNFORM CORPORATION, New York, N. Y. Filed Nov. 21, 1921.

GOVERNFORM

Particular description of goods.—Belts, Belting, and Elastic, All These Goods Being Fastening, Retaining, Adjusting, and Supporting Devices Prepared for Use in the Construction of Wearing Apparel, Garters, and Neckties.

Claims use since Nov. 14, 1921.

Ser. No. 155,957. (CLASS 39. CLOTHING.) A. B. FRANK COMPANY, San Antonio, Tex. Filed Nov. 26, 1921.

ALAMO

Particular description of goods.—Outer Clothing for Men and Boys, Consisting of Coats, Vests, and Pants, Overalls, Work Pants, and Brush Coats.

Claims use since 1911.

Ser. No. 155,971. (CLASS 39. CLOTHING.) THE JOSEPH LOEB COMPANY, Cincinnati, Ohio. Filed Nov. 26, 1921.

Josette

Particular description of goods.—Women's, Misses', and Children's Hats.

Claims use since Mar. 1, 1920.

Ser. No. 156,019. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PITTSBURGH-FLORIDA FRUIT GROWERS ASSOC., Avon Park, Fla. Filed Nov. 28, 1921.

FLORIDAINTY



No claim to pictorial representation of fruit apart from the mark shown.

Particular description of goods.—Citrus Fruits in Their Natural State.

Claims use since Nov. 10, 1921.

Ser. No. 156,153. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DUNLOP TIRE AND RUBBER CORP. OF AMERICA, Buffalo, N. Y. Filed Dec. 1, 1921.



Applicant disclaims illustration of golf bag and golf sticks apart from mark shown.

Particular description of goods.—Golf Balls.

Claims use since July 1, 1916.

Ser. No. 156,326. (CLASS 39. CLOTHING.) GRACELINE KNITTING COMPANY, Linfield, Pa. Filed Dec. 6, 1921.

Graceline

Particular description of goods.—Ladies' Knitted Underwear.

Claims use since January, 1920.

Ser. No. 156,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ADA IMPORTING CO., INC., Niagara Falls, N. Y. Filed Dec. 7, 1921.



Particular description of goods.—Olive Oil and Allimentary Paste.

Claims use since on or about Jan. 1, 1917.

Ser. No. 156,399. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. P. MAGGIONI & CO., Savannah, Ga. Filed Dec. 7, 1921.

SAMBO

Particular description of goods.—Oysters in Their Natural State and Canned.

Claims use since Nov. 17, 1921.

Ser. No. 156,517. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALVATORA BASSO, Chicago, Ill. Filed Dec. 10, 1921.

Dr. S. Basso

The mark as shown is a facsimile of the signature of the applicant herein named.

Particular description of goods.—Hair Tonic.

Claims use since about June 1, 1921.

Ser. No. 156,538. (CLASS 39. CLOTHING.) MANDEL BROTHERS, Chicago, Ill. Filed Dec. 10, 1921.



No claim is made to the words "Dresses," "Aprons," and "Reg. U. S. Patent Office" apart from the mark.

Particular description of goods.—Dresses and Aprons.

Claims use since Dec. 3, 1921.

Ser. No. 156,557. (CLASS 39. CLOTHING.) VANITY BRASSIERE COMPANY INC., New York, N. Y. Filed Dec. 10, 1921.

Vanity
Quality Bandeaux & Brassieres
"EVERY WOMAN NEEDS A LITTLE VANITY"

No claim to "Quality Bandeaux & Brassieres" apart from the mark shown.

Particular description of goods.—Bandeaux and Brassieres.

Claims use since June 30, 1919.

Ser. No. 156,681. (CLASS 38. PRINTS AND PUBLICATIONS.) CHESTER I. CAMPBELL, Boston, Mass. Filed Dec. 14, 1921.

HOME BEAUTIFUL EXPOSITION

Trade-mark "Home Beautiful."
Particular description of goods.—Magazine Published Monthly.
Claims use since Oct. 7, 1920.

Ser. No. 156,714. (CLASS 39. CLOTHING.) ROSENBERG BROS. & Co., Rochester, N. Y. Filed Dec. 14, 1921.



TAILORED AT FASHION PARK

The words "Tailored At" are disclaimed apart from mark shown.
Particular description of goods.—Men's Coats, Vests, and Pants.
Claims use since on or about Jan. 1, 1920.

Ser. No. 156,752. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN GLEASON RYAN, New York, N. Y. Filed Dec. 15, 1921.

Jane Dudley

The trade-mark is the name of a fictitious individual written in the handwriting of the applicant, as shown in the drawing.
Particular description of goods.—Cold Cream.
Claims use since November, 1921.

Ser. No. 156,773. (CLASS 39. CLOTHING.) BES-BEN SHOP, Chicago, Ill. Filed Dec. 16, 1921.

Bes-Ben

Particular description of goods.—Women's Hats and Furs.
Claims use since May 1, 1919.

300 O. G.—25

Ser. No. 157,000. (CLASS 39. CLOTHING.) WILLIAM F. MORAN, Philadelphia, Pa. Filed Dec. 21, 1921.



No claim made to words "Brand" and "Clothing" apart from mark shown.

Particular description of goods.—Men's Clothing Consisting of Suits, Coats, and Topcoats or Overcoats.
Claims use since on or about Jan. 1, 1918.

Ser. No. 157,039. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAWER-GULDEN-ANNIS, INC., Brooklyn, N. Y. Filed Dec. 22, 1921.

GRANDEE

Trade-mark "Grande." *Particular description of goods.*—Food Products—Viz, Olives, Olive Oil, Stuffed Olives, Olive Butter, Minced Olives, Peanut Butter, Prepared Cherries, Minced and Crushed Cherries, and Capers.
Claims use since July 1, 1907.

Ser. No. 157,138. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ARTHUR B. CHRISTOPHER, doing business as The Tel-Auto-Spark Company, St. Louis, Mo. Filed Dec. 27, 1921.

TEL-AUTO-SPARK

Particular description of goods.—Electrical Circuit Testers.
Claims use since Jan. 1, 1921.

Ser. No. 157,215. (CLASS 37. PAPER AND STATIONERY.) DUNN-PEN COMPANY, INC., New York, N. Y. Filed Dec. 28, 1921.

TANK

Particular description of goods.—Fountain Pens.
Claims use since July, 1921.

Ser. No. 157,422. (CLASS 39. CLOTHING.) W. O. HORN & BROTHER, INC., New York, N. Y. Filed Jan. 3, 1922.

“Reviva”

Particular description of goods.—Cravats.
Claims use since October, 1921.

Ser. No. 157,447. (CLASS 39. CLOTHING.) H. M. SAWYER & SON, East Cambridge, Mass. Filed Jan. 3, 1922.

Snugger

Particular description of goods.—Knitted Coats, Jackets, and Vests for Men, Women, and Children.
Claims use since Dec. 1, 1921.

Ser. No. 157,506. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass. Filed Jan. 4, 1922. Under ten-year proviso.

CASCO

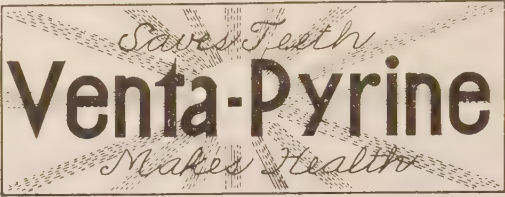
Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.
Claims use since on or about Sept. 1, 1890.

Ser. No. 157,568 (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN C. HAARTZ, Boston, Mass. Filed Jan. 6, 1922.

ALBAMONT

Particular description of goods.—Guernsey Cows.
Claims use since 1916.

Ser. No. 157,790. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ANTITARTAR CHEMICAL COMPANY, Denver, Colo. Filed Jan. 12, 1922.



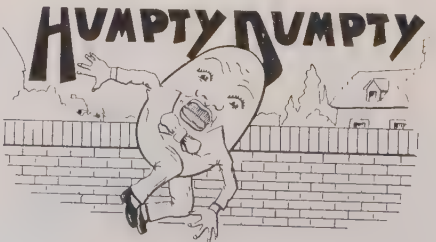
All words appearing on drawing with exception of words “Venta-Pyrine” are hereby disclaimed.
Particular description of goods.—Dentifrices and Gum and Tooth Remedies.
Claims use since Apr. 4, 1917.

Ser. No. 157,882. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BORDEAUX & NEW YORK TRADING CO., doing business as Etablissements Dorsay, New York, N. Y. Filed Jan. 13, 1922.

ROSE ANGELIQUE BRAND

The word “Brand” is disclaimed apart from mark on drawing.
Particular description of goods.—Sardines.
Claims use since 1917.

Ser. No. 157,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRIANGLE MANUFACTURING CO., Cedar Rapids, Iowa. Filed Jan. 14, 1922.



Particular description of goods.—Egg-Preserving Compounds.
Claims use since Jan. 5, 1922.

Ser. No. 158,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PURELINE COMPANY, INC., New York, N. Y. Filed Jan. 16, 1922.

PURELINE

PURELINE

Particular description of goods.—Petroleum Jelly (White, White Plain, Yellow, Yellow Plain, Carbulated, Camphorated, Borated, Mentholated, Perfumed, and Capsicum), Camphor Ice, Camphorated Oil, American White Mineral Oil, Russian Mineral Oil, Cold Cream, Quinine Pomade, and Red-Rose Pomade.

Claims use since Sept. 23, 1921.

Ser. No. 158,031. (CLASS 39. CLOTHING.) MORRIS AUERBACH, doing business as the Auerbach Bath Robe Co., New York, N. Y. Filed Jan. 17, 1922.



Particular description of goods.—Bath Robes, Pullman and Beach Robes. and House Robes.

Claims use since Jan. 3, 1922.

Ser. No. 158,054. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JACOB S. NEIDICH, doing business as Neidich Storage Battery Co., Yonkers, N. Y. Filed Jan. 17, 1922.

Neidich

Particular description of goods.—Storage Batteries.
Claims use since April, 1921.

Ser. No. 158,146. (CLASS 39. CLOTHING.) E. ROSENFELD & COMPANY, Baltimore, Md. Filed Jan. 19, 1922.

SLEEP COAT

Particular description of goods.—Nightrobes and Sleeping Garments.

Claims use since about May 1, 1921.

Ser. No. 158,200. (CLASS 39. CLOTHING.) THOMAS TEXTILE COMPANY, New York, N. Y., assignor to Thomas J. Swartz. Filed Jan. 20, 1922.

Sanite

Particular description of goods.—Babies' Diapers.

Claims use since about Aug. 8, 1921.

Ser. No. 158,231. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENNIE C. GUSTAFSON, Seattle, Wash. Filed Jan. 21, 1922.

BLACKFOOT

Particular description of goods.—Liniment for the Treatment of Rheumatism.

Claims use since May 15, 1921.

Ser. No. 158,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PICON & CIE., Marseille, France. Filed Jan. 21, 1922.



G. PICON

AMER PICON

G. Picon

The signature "G. Picon" appearing on the drawing is that of Gaetan Picon, the founder of the house of Picon & Cie.

Particular description of goods.—Medicinal Bitter Wine.
Claims use since 1876.

Ser. No. 158,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARVIN HERNDON, Washington, D. C. Filed Jan. 23, 1922.

INDIGESTINE

Particular description of goods.—Remedy for Indigestion and Dyspepsia.

Claims use since 1902.

Ser. No. 158,339. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES E. SCHMIDT, trading as Coulter Mfg. Co., Philadelphia, Pa. Filed Jan. 23, 1922.

COULTER SENIOR

Particular description of goods.—Shoe Holders for Holding Shoes While Cleaning and Polishing Same.

Claims use since April, 1902.

Ser. No. 158,340. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES E. SCHMIDT, trading as Coulter Mfg. Co., Philadelphia, Pa. Filed Jan. 23, 1922.

Coulter Junior

Particular description of goods.—Shoe Holders for Holding Shoes While Cleaning and Polishing Same.

Claims use since April, 1902

Ser. No. 158,413. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLAKEY'S BOOT PROTECTORS, LIMITED, Leeds, England. Filed Jan. 25, 1922.

SPARKLING WINE

Particular description of goods.—Boot Polish.

Claims use since Oct. 14, 1921.

Ser. No. 158,414. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) BLAKEY'S BOOT PROTECTORS, LIMITED, Leeds, England. Filed Jan. 25, 1922.



Particular description of goods.—Boot Polish.

Claims use since Oct. 14, 1921.

Ser. No. 158,553. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.



Particular description of goods.—Spinning Frames.

Claims use since 1892.

Ser. No. 158,554. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.



Particular description of goods.—Combination Doubling and Twisting Frames.

Claims use since 1902.

Ser. No. 158,555. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.



Particular description of goods.—Doubling Frames.

Claims use since 1892.

Ser. No. 158,557. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ATWOOD MACHINE COMPANY, Stonington, Conn. Filed Jan. 28, 1922.



Particular description of goods.—Silk-Reeling Frames.
Claims use since 1892.

Ser. No. 158,628. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MOLINE PLOW COMPANY, Moline, Ill. Filed Jan. 30, 1922.

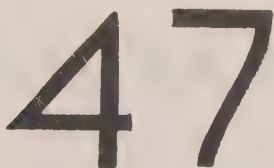
HERCULES

Trade-mark consists of word "Hercules."

Particular description of goods.—Agricultural Machinery, and More Specifically Plows, Both Walking and Riding, and Cultivators, Including Cane Cultivators.

Claims use on plows since about 1913 and on cultivators since about 1916.

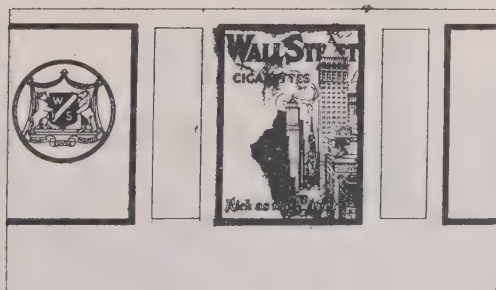
Ser. No. 158,629. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE MERROW MACHINE COMPANY, Hartford, Conn. Filed Jan. 30, 1922.



Particular description of goods.—Loopers for Overseaming and Overedging Sewing Machines.

Claims use since 1905.

Ser. No. 158,685. (CLASS 17. TOBACCO PRODUCTS.) LEONCIO MOSQUERA, doing business as Wall Street Tobacco Company, New York, N. Y. Filed Jan. 31, 1922.



No claim being made to the word "Cigarettes" apart from mark shown.

Particular description of goods.—Cigarettes.

Claims use since Jan. 18, 1922.

Ser. No. 158,710. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN E. HESS, Clearfield, Pa. Filed Feb. 1, 1922.

MERCHANTS' MAGAZINE

Particular description of goods.—Periodical Magazine Published Monthly.

Claims use since Jan. 1, 1922.

Ser. No. 158,720. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUGENE H. LESLIE, doing business as Motors Efficiency Co., Ann Arbor, Mich. Filed Feb. 1, 1922.



Particular description of goods.—Chemical Preparation Used for the Removal of the Carbon and the Materials Which Bind the Carbon Particles Together in Internal-Combustion-Engine Cylinders.

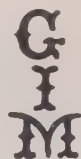
Claims use since Jan. 18, 1922.

Ser. No. 158,731. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SYSTEM MACHINE WORKS, Stockton, Calif. Filed Feb. 1, 1922.

SYSTEM

Particular description of goods.—Circulating Pumps.
Claims use since July 1, 1921.

Ser. No. 158,777. (CLASS 2. RECEPTACLES.) TIRE INFLATOR Co., Philadelphia, Pa. Filed Feb. 2, 1922.



GIM

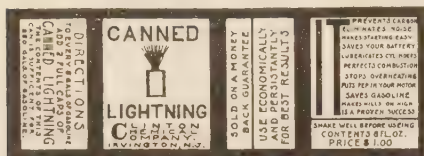
ICK



Particular description of goods.—Tire-Inflating Devices Consisting of Valve Receptacles Containing Fluid Under Pressure for Inflating Pneumatic Tires.

Claims use since Nov. 4, 1921.

Ser. No. 158,857. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLINTON CHEMICAL COMPANY, Irvington, N. J. Filed Feb. 4, 1922.



We only apply for registration of the design and the words "Canned Lighting" and "Clinton Chemical Company" and hereby expressly disclaim any intention or desire to include in or to protect by, such registration the rest of the wording or language which appears in drawing.
Particular description of goods.—Gasoline Intensifier.
Claims use since Oct. 1, 1921.

Ser. No. 158,882. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) LAWRENCE C. MAY, doing business as Lawrence C. May Co., New York, N. Y. Filed Feb. 4, 1922.

MAYFLOWER

Particular description of goods.—Finger Rings.
Claims use since about Jan. 15, 1922.

Ser. No. 158,951. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) RACINE RUBBER COMPANY, Racine, Wis. Filed Feb. 6, 1922.

RACINE TRUSTY

Particular description of goods.—Rubber or Rubber and Fabric Tires for Vehicles.
Claims use since on or about Jan. 3, 1922.

Ser. No. 158,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HENRY S. WAMPOLE COMPANY, Baltimore, Md. Filed Feb. 6, 1922.

FORMETHOL

Particular description of goods.—Antiseptic Solution.
Claims use since July 1, 1921.

Ser. No. 158,999. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH STANISLAWSKI, Hammond, Ind. Filed Feb. 7, 1922.

BOJAR



Particular description of goods.—Healing Oil for Rheumatism, Swelling, Carbuncles, Pimples, Ringworms, Burns, Frozen Limbs, Boils, and Colic.
Claims use since June 10, 1921.

Ser. No. 159,138. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) BINNEY & SMITH COMPANY, East Orange, N. J., and New York, N. Y. Filed Feb. 10, 1922.

"CLAYOLA"

Particular description of goods.—Modeling Clay.
Claims use since Dec. 1, 1921.

Ser. No. 159,201. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOUISIANA M. DAVIS, Glencoe, Ill. Filed Feb. 11, 1922.

LUZIE LOVEM

Particular description of goods.—Dolls and Toy Figures.
Claims use since about Nov. 21, 1920.

Ser. No. 159,211. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Feb. 11, 1922.

Oxyl-Iodide

No exclusive use to word "Iodide" apart from the association shown. Trade-Mark "Oxyl-Iodide."

Particular description of goods.—Medicinal Preparation for Use in the Treatment of Rheumatism and Allied Conditions.

Claims use since Dec. 10, 1920.

Ser. No. 159,250. (CLASS 32. FURNITURE AND UP-HOLSTERY.) DURABILT STEEL LOCKER CO., Aurora, Ill. Filed Feb. 13, 1922.



Particular description of goods.—Steel Lockers Wardrobe Cabinets, Filing Cabinets, and Steel Shelving.

Claims use since June 20, 1921.

Ser. No. 159,270. (CLASS 17. TOBACCO PRODUCTS.) ROBIN LANDMAN, Milwaukee, Wis. Filed Feb. 13, 1922.

Royal Juliet

Particular description of goods.—Cigars.

Claims use since Jan. 25, 1922.

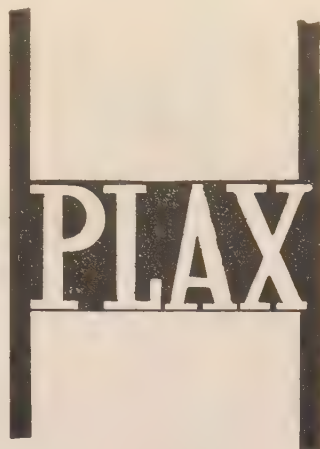
Ser. No. 159,473. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MAPPIN & WEBB, LIMITED, Sheffield and London, England. Filed Feb. 17, 1922.



Particular description of goods.—Tableware Made from Precious Metal or Plated with Precious Metal.

Claims use since Jan. 26, 1877.

Ser. No. 159,527. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PLAX COMPANY, New York, N. Y. Filed Feb. 18, 1922.



Particular description of goods.—Laxative Tablets.

Claims use since Feb. 11, 1922.

Ser. No. 159,547. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER ABELL, El Campo, Tex. Filed Feb. 20, 1922.



The portrait of boy is that of Geo. P. Willis, Jr.

Particular description of goods.—Medicinal Preparation Used in Treatment of Hemorrhagic Septicemia or Loin Disease in Cattle.

Claims use since Jan. 17, 1922.

Ser. No. 159,567. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARCELLUS DIEDERICH, doing business as Standard Products Company, Lorain, Ohio. Filed Feb. 20, 1922.

FLY-KURE

Particular description of goods.—Insecticides.

Claims use since July 1, 1921.

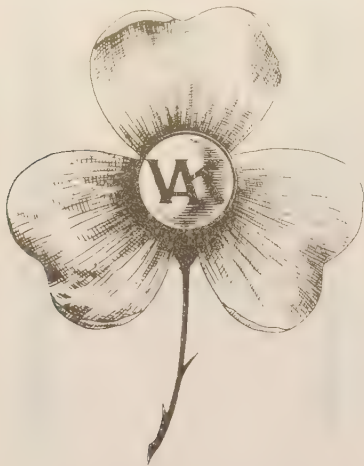
Ser. No. 159,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JENNINGS & COMPANY, INC., Boston, Mass. Filed Feb. 20, 1922.

QUINOID

Particular description of goods.—Dyestuffs.

Claims use since Feb. 8, 1922.

Ser. No. 159,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VIENNA MEDICAL COMPANY, Detroit, Mich. Filed Feb. 20, 1922.



Particular description of goods.—Cough Lozenges, Cough Sirup, and Compound for Treatment of Coughs.
Claims use since Jan. 24, 1922.

Ser. No. 159,642. (CLASS 38. PRINTS AND PUBLICATIONS.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Feb. 20, 1922.

Contact

Particular description of goods.—Monthly Magazines.
Claims use since Jan. 1, 1918.

Ser. No. 159,655. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WILLIAM HORNSEY, Jamaica Plain, Boston, Mass. Filed Feb. 21, 1922.



Particular description of goods.—Hair Restorers.
Claims use since Dec. 2, 1921.

Ser. No. 159,686. (CLASS 38. PRINTS AND PUBLICATIONS.) BOOT AND SHOE RECORDER PUBLISHING COMPANY, Boston, Mass. Filed Feb. 23, 1922.

INTERNATIONAL RECORDER

Particular description of goods.—Shoe and Leather Trade Monthly Periodical.
Claims use since January, 1922.

Ser. No. 159,710. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LANGLEY & MICHAELS Co., San Francisco, Calif. Filed Feb. 23, 1922. Under ten-year proviso.

ALK-ASEPTINE

Particular description of goods.—Antiseptic and Germicidal Solution.
Claims use since Jan. 1, 1895.

Ser. No. 159,786. (CLASS 38. PRINTS AND PUBLICATIONS.) BOOT AND SHOE RECORDER PUBLISHING COMPANY, Boston, Mass. Filed Feb. 25, 1922.

BOOT and SHOE RECORDER

Particular description of goods.—Shoe and Leather Trade Weekly Periodical.
Claims use since 1883.

Ser. No. 160,175. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILL & BAUMER CANDLE CO. INC., Syracuse, N. Y. Filed Mar. 3, 1922.

PONTIFICAL

Particular description of goods.—Incense.
Claims use since about Jan. 1, 1913.

Ser. No. 160,249. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed Mar. 6, 1922.

MERCUROSAL

Particular description of goods.—Medicine for Venereal Diseases and Catarrh of the Mucous Membrane.
Claims use since July 25, 1921.

Ser. No. 160,369. (CLASS 31. FILTERS AND REFRIGERATORS.) STANDARD REFRIGERATOR COMPANY, Philadelphia, Pa. Filed Mar. 8, 1922.



The word "Standard" is disclaimed apart from the mark shown.

Particular description of goods.—Refrigerators.

Claims use since about Jan. 1, 1901.

Ser. No. 160,666. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HERBICIDE CHEMICAL LABORATORIES, Los Angeles, Calif. Filed Mar. 14, 1922.



Particular description of goods.—Spray for Trees, Plants, Shrubs, and the Like.

Claims use since Jan. 1, 1922.

Ser. No. 160,717. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES T. NAUMANN, doing business as Broadway Perfume Company, New York, N. Y. Filed Mar. 15, 1922.

Broadway

Particular description of goods.—Toilet Water Scalp Rub, Hair Tonic, Eau De Quinine, and Bay Rum.

Claims use since Feb. 15, 1922.

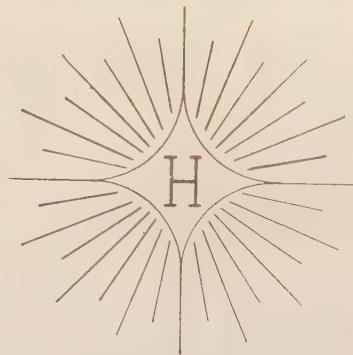
Ser. No. 160,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SALTRATES, LIMITED, London, England. Filed Mar. 15, 1922.

REUDEL

Particular description of goods.—Bath Salts.

Claims use since May, 1915.

Ser. No. 160,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATHILDA G. HORNING, West New York, N. J. Filed Mar. 16, 1922.



Particular description of goods.—Salve for the Treatment of Itching Diseases, Sores, Burns, Cuts, Bruises, All Kinds of Skin Diseases, Sunburn, Chafe, Chapped Hands, Poison Ivy, and Sore Burning Feet.

Claims use since at least Jan. 1, 1919.

Ser. No. 160,784. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALLEN AND CLAY, Detroit, Mich. Filed Mar. 17, 1922.

'KODAS'

Particular description of goods.—External Medicines for Use in the Treatment of Rheumatism, Neuralgia, Headache, and Stiff Joints.

Claims use since Feb. 23, 1922.

Ser. No. 160,811. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. D. HILL COMPANY, Los Angeles, Calif. Filed Mar. 17, 1922.



Trade-mark consists of letter "H" in red color. No claim made to words "R. D. Hill Company Manufacturers" apart from mark shown.

Particular description of goods.—Medicated Shampoo Liquid Compositions, Balsams, and Ointments for Eczema.

Claims use since Feb. 27, 1922.

Ser. No. 160,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
EDGAR SAMSON, doing business as Dyatome Laboratories,
New York, N. Y. Filed Mar. 17, 1922.

DYATOME

Particular description of goods.—Preparation for Coloring and Tinting Fabrics and the Like.

Claims use since Mar. 15, 1922.

Ser. No. 160,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
GEORGE LEE KITCHEN, doing business as Hemolene Chemical Co., St. Louis, Mo. Filed Mar. 18, 1922.

HEMOLENE

Particular description of goods.—Tooth Paste and Mouth Washes.

Claims use since on or about Dec. 15, 1921.

Ser. No. 160,891. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.)
THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Mar. 18, 1922.

BROWNDL

Particular description of goods.—Brake Lining Made Partly of Asbestos and Partly of Rubber.

Claims use since Mar. 1, 1920.

Ser. No. 160,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Preparation or Medicine for Pains and Aches of Nervous or Organic Origin and for Rheumatic, Neuralgic, and Gouty Conditions, and Antirheumatic, Analgesic, and Antipyretic.

Claims use since about Mar. 17, 1915.

Ser. No. 160,922. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Preparations or Medicines for Pains and Aches of Nervous or Organic Origin and for Rheumatic, Neuralgic, and Gouty Conditions; Absorbefacients, Alteratives; Analgesics, Local and Internal; Anodynes; Antineuralgics, Local and Internal; Antirheumatics, Local and Internal; Antiarthritics, Antipyretics; Antiseptics, Local and Internal; Antigonorrhoeics, Antileprics, Antispasmodics, Antituberculous, Antimalarial, Antidiarrheal, Antisymphilitics; Astringents, Local and Internal; Local Anesthetics, Cicatrizants, Diuretics, Digestants, Diaphoretics, Expectorants, Hematinics, Hemostatics, Hypnotics, Purgatives, Sedatives, and General Tonics.

Claims use since Jan. 2, 1895.

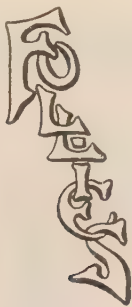
Ser. No. 160,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Preparations or Medicines for Pains and Aches of Nervous or Organic Origin and for Rheumatic, Neuralgic, and Gouty Conditions; Absorbefacients, Alteratives; Analgesics, Local and Internal; Anodynes; Antineuralgics, Local and Internal; Antirheumatics, Local and Internal; Antiarthritics, Antipyretics; Antiseptics, Local and Internal; Antigonorrhoeics, Antileprics, Antispasmodics, Antituberculous, Antimalarial, Antidiarrheal, Antisymphilitics; Astringents, Local and Internal; Local Anesthetics, Cicatrizants, Diuretics, Digestants, Diaphoretics, Expectorants, Hematinics, Hemostatics, Hypnotics, Purgatives, Sedatives, and General Tonics.

Claims use since Jan. 2, 1895.

Ser. No. 160,944. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
JOLIE, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Face Powders, Face Creams, Talcum Powders, Sachet Powders, Rouges, Lip Sticks, Eyebrow Pencils, Perfumes, Toilet Waters, Hair Tonics, Brilliantine, Dentifrices, Tooth Powders, Nail Polishes, and Deodorizing Preparations.

Claims use since Dec. 3, 1920.

Ser. No. 160,945. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
JOLIE, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Face Powders, Face Creams, Talcum Powders, Sachet Powders, Rouges, Lip Sticks, Eyebrow Pencils, Perfumes, Toilet Waters, Hair Tonics, Brilliantine, Dentifrices, Tooth Powders, Nail Polishes, and Deodorizing Preparations.

Claims use since Oct. 23, 1920.

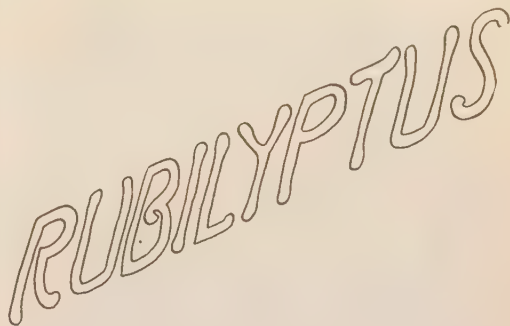
Ser. No. 160,960. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
NATIONAL PYRO-ZENE COMPANY, Atlanta, Ga. Filed Mar. 20, 1922.



Particular description of goods.—Treatment of Pyorrhea for the Correction of Soft, Bleeding, Spongy, Receding Gums, and for the Promotion and Maintenance of Tooth, Gum, and Mouth Health.

Claims use since June, 1921.

Ser. No. 160,964. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE OWL DRUG COMPANY, San Francisco, Calif. Filed Mar. 20, 1922.



Particular description of goods.—Alkaline Antiseptic Solution for Use in Oral and Nasal Passages.

Claims use since June 1, 1914.

Ser. No. 160,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
THE OWL DRUG COMPANY, San Francisco, Calif. Filed Mar. 20, 1922.



Particular description of goods.—Antiseptic Astringent Vaginal Suppositories.

Claims use since about July 15, 1915.

Ser. No. 160,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
ROBERT L. PLEASANT, doing business as Nakoma Laboratories, New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Ointment for Treatment of Eczema and Ulcers.

Claims use since Nov. 1, 1920.

Ser. No. 161,195. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) REBECCA KRAVITZ, Vineland, N. J. Filed Mar. 24, 1922.



The words "Washing Liquid" and "The New Method of Washing Clothes Without Rubbing" is disclaimed apart from mark shown.

Particular description of goods.—Washing Fluid.
Claims use since Mar. 1, 1922.

Ser. No. 161,199. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE PUTT-PUTT CO., Chicago, Ill. Filed Mar. 24, 1922.

PLT-PLT

Particular description of goods.—Indoor Golf Game.
Claims use since Feb. 14, 1922.

Ser. No. 161,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y. Filed Mar. 31, 1922.



Particular description of goods.—Butter, Condensed Milk, Evaporated Milk, and Ice Cream.
Claims use since Apr. 15, 1921.

Ser. No. 161,640. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) NORTH EAST ELECTRIC COMPANY, Rochester, N. Y. Filed Apr. 1, 1922.



Particular description of goods.—Tachometers and Odometers.
Claims use since June 2, 1921.

Ser. No. 161,688. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) O. E. LEHMANN & Co., New York, N. Y. Filed Apr. 3, 1922.

JUSTRITE

Particular description of goods.—Ring Springs.
Claims use since Jan. 5, 1916.

Ser. No. 161,723. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & Co. INC., New York, N. Y. Filed Apr. 4, 1922.



Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 24, 1922.

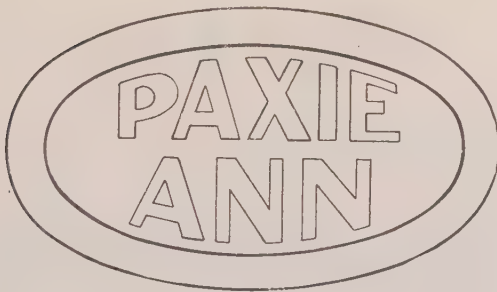
Ser. No. 161,724. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & Co. Inc., New York, N. Y. Filed Apr. 4, 1922.



Particular description of goods.—Cotton Textiles in the Piece.

Claims use since Mar. 24, 1922.

Ser. No. 161,913. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARTHA ST. CLAIR WINGERT, Whittier, Calif. Filed Apr. 7, 1922.



Particular description of goods.—Dolls.

Claims use since Mar. 25, 1922.

Ser. No. 162,071. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) STIX, BAER & FULLER DRY Goods Co., St. Louis, Mo. Filed Apr. 10, 1922.

Empress
of India

Particular description of goods.—Necklaces.

Claims use since June, 1919.

Ser. No. 162,108. (CLASS 38. PRINTS AND PUBLICATIONS.) SAMUEL GOTTLIEB, New York, N. Y. Filed Apr. 11, 1922.

Luxname

Particular description of goods.—Push Cards.

Claims use since about Mar. 1, 1922.

Ser. No. 162,273. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SHEBOYGAN COASTER & WAGON WORKS, Sheboygan, Wis. Filed Apr. 13, 1922.



Portions of trade-mark are shown in black, red, and gold, as indicated by shade lines. No claim is made for the words "Sheboygan, Wis.," apart from mark shown.

Particular description of goods.—Children's Coaster Wagons.

Claims use since Feb. 11, 1922.

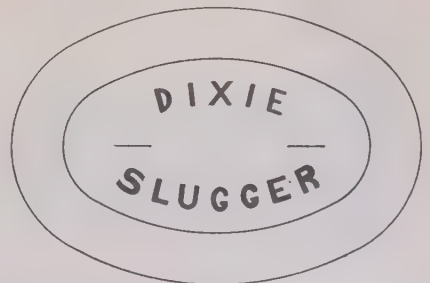
Ser. No. 162,336. (CLASS 38. PRINTS AND PUBLICATIONS.) GLASS CONTAINER ASSOCIATION OF AMERICA, New York, N. Y. Filed Apr. 15, 1922.

The Glass Container

Particular description of goods.—Monthly Publication.

Claims use since Nov. 1, 1921.

Ser. No. 162,381. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE COLLIERVILLE BAT AND DIMENSION STOCK COMPANY, Collierville, Tenn. Filed Apr. 17, 1922.



Particular description of goods.—Baseball Bats.

Claims use since February, 1922.

Ser. No. 162,533. (CLASS 12. CONSTRUCTION MATERIALS.) COMMERCIAL LIME COMPANY, Ocala, Fla. Filed Apr. 19, 1922.

AUROCK

Particular description of goods.—Hydrated and Quick Lime.

Claims use since January, 1920.

Ser. No. 162,653. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES ASBESTOS COMPANY, Lancaster, Pa. Filed Apr. 20, 1922.

ASBESTO-CUSHION

Trade-mark "Asbesto-Cushion."

Particular description of goods.—Fabric, Brake, and Transmission Lining.

Claims use since Feb. 15, 1922.

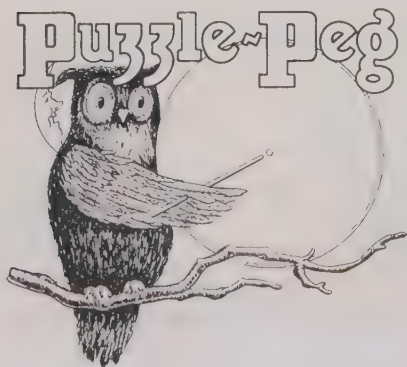
Ser. No. 162,742. (CLASS 38. PRINTS AND PUBLICATIONS.) JONES & BAKER, New York, N. Y. Filed Apr. 22, 1922.

INVESTOR & TRADER

Particular description of goods.—Publication Published Weekly.

Claims use since Apr. 14, 1919.

Ser. No. 162,882. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LUBBERS & BELL MFG. Co., Clinton, Iowa. Filed Apr. 25, 1922.



Particular description of goods.—Solitaire Game.

Claims use since Sept. 5, 1921.

Ser. No. 162,888. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PORTER BROS., Philadelphia, Pa. Filed Apr. 25, 1922.

Clover Brook

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making the Same.

Claims use since Apr. 30, 1920.

Ser. No. 162,940. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) GEO. V. MILLAR CO., Scranton, Pa. Filed Apr. 26, 1922.

China Hall

Particular description of goods.—China, Earthenware, Pottery, Stoneware, Porcelain Ware, Crockery, and Terra-Cotta Ware.

Claims use since 1888.

Ser. No. 163,037. (CLASS 17. TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Apr. 28, 1922.

DURBAR

Particular description of goods.—Cigars, Little Cigars, Cigarettes, and Smoking Tobacco.

Claims use since January, 1915.

Ser. No. 163,038. (CLASS 17. TOBACCO PRODUCTS.) ALFRED DUNHILL OF LONDON, INC., New York, N. Y. Filed Apr. 28, 1922.

pomp

Particular description of goods.—Cigars, Little Cigars, Cigarettes, and Smoking Tobacco.

Claims use since January, 1915.

Ser. No. 163,263. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 3, 1922.

SINCERITY

Particular description of goods.—Writing Paper.

Claims use since Apr. 19, 1922.

Ser. No. 163,264. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 3, 1922.

APPROVAL

Particular description of goods.—Writing Paper.
Claims use since Apr. 19, 1922.

Ser. No. 163,265. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed May 3, 1922.

ALLEGIANCE

Particular description of goods.—Writing Paper.
Claims use since Apr. 19, 1922.

Ser. No. 163,292. (CLASS 37. PAPER AND STATIONERY.) SIMPLO FÜLLFEDER-GESELLSCHAFT VOSS, LAUSEN & DZIAMBOR, Hamburg, Germany. Filed May 3, 1922.

MONTBLANC



Particular description of goods.—Fountain Pens.
Claims use since 1913.

Ser. No. 163,469. (CLASS 37. PAPER AND STATIONERY.) A. W. POHLMAN PAPER CO., INC., New York, N. Y. Filed May 6, 1922.

Forefathers

Particular description of goods.—Bond Paper for Writing and Printing Purposes.
Claims use since Mar. 31, 1922.

Ser. No. 163,470. (CLASS 37. PAPER AND STATIONERY.) A. W. POHLMAN PAPER CO. INC., New York, N. Y. Filed May 6, 1922.

Tip Top

Particular description of goods.—Bond Paper for Writing and Printing Purposes.
Claims use since Sept. 23, 1921.

Ser. No. 163,583. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. I. JORDAN, Auburn, Me. Filed May 9, 1922.

LAMINO

Particular description of goods.—Golf Clubs.
Claims use since Nov. 1, 1921.

Ser. No. 163,671. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE CINCINNATI HORSE SHOE & IRON CO., Cleves, Ohio. Filed May 11, 1922.

RYD-E-Z

Particular description of goods.—Automobile Springs.
Claims use since April, 1922.

Ser. No. 163,774. (CLASS 19, VEHICLES, NOT INCLUDING ENGINES.) BADGER MANUFACTURING CORPORATION, Milwaukee, Wis. Filed May 13, 1922.

DELUXE

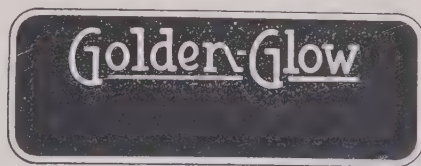
Trade-mark "Deluxe."
Particular description of goods.—Bumpers.
Claims use since about September, 1920.

Ser. No. 163,775. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BETTES & EBSEN, New York, N. Y. Filed May 13, 1922.

B-E

Particular description of goods.—Brake Lining.
Claims use since October, 1921.

Ser. No. 163,959. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) AMERICAN STOVE COMPANY, St. Louis, Mo. Filed May 17, 1922.



Trade-mark "Golden Glow."
Particular description of goods.—Gas Stoves and Heaters.
Claims use since about May 14, 1918.

Ser. No. 164,259. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) O. R. PIEPER Co., Milwaukee, Wis. Filed May 22, 1922.



Particular description of goods.—Nonintoxicating, Non-alcoholic, Noncereal, Maltless Fruit Beverage Sold as Soft Drinks and Sirups Used in Preparation of the Same.

Claims use since 1905.

Ser. No. 164,269. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) REID, MURDOCH & Co., Chicago, Ill. Filed May 22, 1922.

Particular description of goods.—Root Beer and Ginger Ale.

Claims use since 1913.

Ser. No. 164,290. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) AMBASSADOR TIRE CORPORATION, New York, N. Y. Filed May 23, 1922.

Particular description of goods.—Pneumatic Rubber Vehicle Tires.

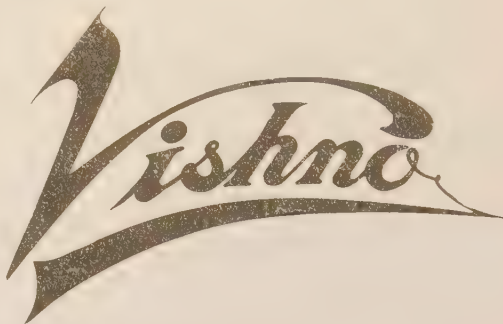
Claims use since Feb. 1, 1922.

Ser. No. 164,445. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JOHNS MANVILLE INCORPORATED, New York, N. Y. Filed May 24, 1922.

Particular description of goods.—Piston and Piston-Rod Packing Made of Textile Fabric and Rubber Cement.

Claims use since Jan. 1, 1913.

Ser. No. 164,525. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE TSAGARAKIS, New York, N. Y. Filed May 25, 1922.

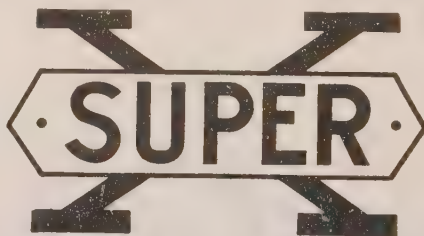


Trade-mark "Vishno."

Particular description of goods.—Nonalcoholic Maltless Beverages Sold as Soft Drinks.

Claims use since Mar. 15, 1922.

Ser. No. 164,681. (CLASS 9. EXPLOSIVES, FIRE-ARMS, EQUIPMENTS, AND PROJECTILES.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed May 29, 1922.



Particular description of goods.—Shot Shells.

Claims use since about Nov. 1, 1921.

Ser. No. 164,949. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PRIMAULT PRODUCTS Co., Chicago, Ill. Filed June 3, 1922.



Particular description of goods.—Nonintoxicating, Non-alcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Sirups Used in Preparation of the Same.

Claims use since April, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 11, 1922.

- 156,605. SCISSORS AND SHEARS. THE ACME SHEAR COMPANY, Bridgeport, Conn.
Filed December 13, 1921. Serial No. 156,616. PUBLISHED MARCH 21, 1922.
- 156,606. CERTAIN NAMED JEWELRY. ABEL BROS. & CO. INC., New York, N. Y.
Filed August 11, 1921. Serial No. 151,649. PUBLISHED MAY 2, 1922.
- 156,607. ELECTRIC-LIGHTING FIXTURES. GEORGE R. AINSWORTH, New York, N. Y.
Filed June 20, 1921. Serial No. 149,370. PUBLISHED MARCH 14, 1922.
- 156,608. EDIBLE VEGETABLE COTTONSEED OILS. THE AMERICAN COTTON OIL COMPANY, Union Township, Hudson County, N. J., and New York, N. Y.
Filed June 9, 1921. Serial No. 148,863. PUBLISHED JANUARY 24, 1922.
- 156,609. ROPE CLAMPS. AMERICAN HOIST & DERRICK CO., St. Paul, Minn.
Filed October 18, 1921. Serial No. 154,256. PUBLISHED MARCH 21, 1922.
- 156,610. CERTAIN NAMED LAUNDRY APPLIANCES AND MACHINES. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood, Ohio.
Filed November 6, 1920. Serial No. 139,244. PUBLISHED MARCH 14, 1922.
- 156,611. CERTAIN NAMED APPLIANCES FOR RADIO MECHANISM. THE AMERICAN RADIO SALES AND SERVICE COMPANY, Mansfield, Ohio.
Filed October 8, 1921. Serial No. 153,864. PUBLISHED MAY 2, 1922.
- 156,612. MACHINERY WHEELS AND GEARS. AMERICAN STEEL FOUNDRIES, Chicago, Ill.
Filed March 1, 1921. Serial No. 144,169. PUBLISHED MARCH 21, 1922.
- 156,613. IGNITION TIMERS FOR EXPLOSION ENGINES. THE ANDERSON COMPANY, South Bend, Ind.
Filed October 6, 1921. Serial No. 153,794. PUBLISHED MARCH 21, 1922.
- 156,614. VEGETABLE SLICERS AND CHOPPERS. E. S. ANDERSON COMPANY, Gloversville, N. Y.
Filed January 6, 1922. Serial No. 157,548. PUBLISHED MARCH 21, 1922.
- 156,615. CERTAIN NAMED RADIO APPARATUS. FRANK A. D. ANDREA, New York, N. Y.
Filed December 19, 1921. Serial No. 156,876. PUBLISHED MARCH 14, 1922.
- 156,616. HOUSEHOLD WASHBOILERS. ATLAS TINKWARE COMPANY, INC., New York, N. Y.
Filed September 9, 1921. Serial No. 152,733. PUBLISHED MARCH 28, 1922.
- 156,617. TIRE PUMPS AND VALVE GRINDERS. AUTO-QUIP MFG. CO., INC., Rochester, N. Y.
Filed February 14, 1921. Serial No. 143,528. PUBLISHED MARCH 21, 1922.
- 156,618. CANNED FRUIT, CANNED SALMON AND SARDINES. H. J. BAKER & BRO., New York, N. Y.
Filed March 11, 1920. Serial No. 129,531. PUBLISHED DECEMBER 28, 1920.
- 156,619. FINGER RINGS. MAX BAUMAN, trading as M. Bauman & Company, New York, N. Y.
Filed December 30, 1921. Serial No. 157,297. PUBLISHED MAY 2, 1922.
- 156,620. CHOCOLATE, COCOA, AND CANDY COMPOSED OF OR CONTAINING CHOCOLATE, AND OTHER CANDIES. BEACON CHOCOLATE COMPANY, Boston, Mass.
Filed November 26, 1918. Serial No. 114,370. PUBLISHED MARCH 28, 1922.
- 156,621. ELECTRICAL PLUGS, ATTACHMENT PLUGS, AND SWITCH PLUGS. BEAVER MACH. & TOOL CO. INC., Newark, N. J.
Filed February 4, 1922. Serial No. 158,847. PUBLISHED MAY 2, 1922.
- 156,622. CANDY AND CAMELS. PAUL F. BEICH COMPANY, Bloomington, Ill.
Filed November 22, 1921. Serial No. 155,735. PUBLISHED MARCH 28, 1922.
- 156,623. SPARK TIMERS FOR INTERNAL-COMBUSTION ENGINES. BERG BROS. MFG. COMPANY, Chicago, Ill.
Filed August 15, 1921. Serial No. 151,780. PUBLISHED MAY 2, 1922.
- 156,624. ELECTRIC SPARK ENERGIZERS. BLASDEL SHAPLEIGH, trading as Blasdel Products Co., St. Louis, Mo.
Filed January 23, 1922. Serial No. 158,338. PUBLISHED MAY 2, 1922.
- 156,625. MALT EXTRACT. BLUE BIRD MALT COMPANY, Baltimore, Md.
Filed November 2, 1920. Serial No. 139,096. PUBLISHED JUNE 21, 1921.
- 156,626. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,357. PUBLISHED MARCH 28, 1922.
- 156,627. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York.
Filed January 24, 1922. Serial No. 158,369. PUBLISHED MARCH 28, 1922.
- 156,628. FINGER RINGS. THE BOCK-LEWIS CO., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,031. PUBLISHED MARCH 21, 1922.
- 156,629. ARTIFICIAL PEARLS MADE FROM FISH SCALES AND NECKLACES MADE FROM SUCH PEARLS. RALPH H. BODMAN, Hyannis, Mass.
Filed October 24, 1921. Serial No. 154,480. PUBLISHED MARCH 14, 1922.
- 156,630. TELEPHONIC APPARATUS. G. BOISSONNAULT COMPANY, New York, N. Y.
Filed September 19, 1921. Serial No. 153,070. PUBLISHED MARCH 14, 1922.
- 156,631. TELEPHONIC APPARATUS. G. BOISSONNAULT COMPANY, New York, N. Y.
Filed September 19, 1921. Serial No. 153,071. PUBLISHED MARCH 14, 1922.
- 156,632. PEARLS, SYNTHETIC PEARLS, NECKLACES, AND CLASPS. FRANCIS M. BOTELHO, trading as Francis M. Botelho Co., Philadelphia, Pa.
Filed November 17, 1921. Serial No. 155,474. PUBLISHED MAY 2, 1922.

156,633. TOMATO SAUCE, CANNED OLIVES, AND COTTON-SEED SALAD OIL. BRAGNO & MUSTARI, Chicago, Ill.

Filed November 8, 1921. Serial No. 155,156. PUBLISHED MARCH 21, 1922.

156,634. MACARONI. BRAGNO & MUSTARI, Chicago, Ill.

Filed November 8, 1921. Serial No. 155,157. PUBLISHED MARCH 28, 1922.

156,635. SPARK PLUGS. BROWN BAG FILLING MACHINE COMPANY, Fitchburg, Mass.

Filed December 16, 1921. Serial No. 156,774. PUBLISHED MARCH 14, 1922.

156,636. PHONOGRAPHS AND PHONOGRAPH RECORDS. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.

Filed November 19, 1917. Serial No. 107,458. PUBLISHED APRIL 18, 1922.

156,637. OIL-MILL MACHINERY. BUCKEYE IRON & BRASS WORKS, Dayton, Ohio.

Filed December 23, 1921. Serial No. 157,055. PUBLISHED MARCH 21, 1922.

156,638. OLIVE OIL. C. BUONOCORE & SON, New York, N. Y.

Filed November 4, 1921. Serial No. 155,011. PUBLISHED MARCH 28, 1922.

156,639. CLOTHES-WASHING MACHINE. RODERICK S. BURLINGAME, trading as Burlingame Manufacturing Company, Syracuse, N. Y.

Filed September 28, 1921. Serial No. 153,428. PUBLISHED MAY 2, 1922.

156,640. CERTAIN NAMED DENTAL SUPPLIES AND APPLIANCES AND COCOA BUTTER PREPARED FOR THE USE IN DENTAL PURPOSES. THE L. D. CAULK COMPANY, Milford, Del.

Filed August 6, 1921. Serial No. 151,509. PUBLISHED FEBRUARY 7, 1922.

156,641. CERTAIN MACHINERY FOR BAKERIES. CHAMPION MACHINERY CO., Joliet, Ill.

Filed November 29, 1921. Serial No. 156,049. PUBLISHED MARCH 21, 1922.

156,642. TIMERS FOR INTERNAL-COMBUSTION ENGINES. CHICAGO TIMER FACTORY INCORPORATED, Chicago, Ill.

Filed December 29, 1921. Serial No. 157,257. PUBLISHED MAY 2, 1922.

156,643. TIMERS FOR INTERNAL-COMBUSTION ENGINES. CHICAGO TIMER FACTORY INCORPORATED, Chicago, Ill.

Filed December 29, 1921. Serial No. 157,258. PUBLISHED MARCH 28, 1922.

156,644. LAUNDRY WASHING MACHINES AND WRINGERS. CLARK, CADLE, HARMON CORP., Rochester, N. Y.

Filed September 3, 1920. Serial No. 136,783. PUBLISHED MARCH 14, 1922.

156,645. PISTONS FOR INTERNAL-COMBUSTION ENGINES. CLARK-TURNER PISTON COMPANY, Los Angeles, Calif.

Filed October 24, 1921. Serial No. 154,487. PUBLISHED MARCH 28, 1922.

156,646. ELECTRIC SUCTION SWEEPERS. CLEMENTS MFG. CO., Chicago, Ill.

Filed July 20, 1921. Serial No. 150,657. PUBLISHED MAY 2, 1922.

156,647. AUTOMOBILE TIRES OF RUBBER AND OF RUBBERIZED FABRIC, INNER TUBES FOR TIRES, TIRE LINERS, AND TIRE PATCHES. THE CLIMAX RUBBER CO., Columbus, Ohio.

Filed June 17, 1921. Serial No. 149,268. PUBLISHED FEBRUARY 7, 1922.

156,648. LAUNDRY WASHING MACHINES AND CLOTHES WRINGERS. THE COFFIELD WASHER CO., Dayton, Ohio.

Filed February 17, 1921. Serial No. 143,685. PUBLISHED MARCH 14, 1922.

156,649. HOSIERY, KNITTED AND WOVEN UNDERWEAR, KNITTED SWEATERS, WOVEN OVERSHIRTS. COHEN & ETTENSON, New York, N. Y.

Filed February 26, 1921. Serial No. 144,066. PUBLISHED OCTOBER 4, 1921.

156,650. CONCRETE MIXERS, DIAPHRAGM PUMPS, HOISTS, BACKFILLERS, AND INTERNAL-COMBUSTION AND STEAM ENGINES. CONSTRUCTION MACHINERY COMPANY, Waterloo, Iowa.

Filed November 25, 1921. Serial No. 155,870. PUBLISHED MARCH 21, 1922.

156,651. PIANOS. CARLE C. CONWAY, EARLE E. CONWAY, and THEODORE P. BROWN, trustees, trading as Hallet & Davis Piano Co., Boston, Mass.

Filed September 10, 1921. Serial No. 152,800. PUBLISHED MAY 2, 1922.

156,652. CERTAIN NAMED ELECTRICAL APPARATUS. J. A. CRABTREE & CO. LTD., Birmingham, England.

Filed December 8, 1921. Serial No. 156,441. PUBLISHED MARCH 14, 1922.

156,653. BAR CONTAINING A FUDGE BODY COVERED FIRST BY MARSHMALLOW AND THEN ICING. CURTISS CANDY CO., Chicago, Ill.

Filed November 17, 1921. Serial No. 155,481. PUBLISHED MARCH 28, 1922.

156,654. SPARK PLUGS. THE DAYTON IGNITION COMPANY, Dayton, Ohio.

Filed September 13, 1920. Serial No. 137,114. PUBLISHED FEBRUARY 22, 1921.

156,655. CHOCOLATE-COATED CANDIES PACKED IN INDIVIDUAL CARTONS. THE DE KLYN CANDY CO., Cleveland, Ohio.

Filed September 17, 1921. Serial No. 153,034. PUBLISHED MARCH 28, 1922.

156,656. LAUNDRY WASHING MACHINES. DETROIT WASHING MACHINE CORPORATION, Detroit, Mich.

Filed October 22, 1921. Serial No. 154,437. PUBLISHED MAY 2, 1922.

156,657. ELECTRIC INSULATING TAPE. DIAMOND HOLFAST RUBBER CO., Atlanta, Ga.

Filed September 19, 1921. Serial No. 153,081. PUBLISHED MARCH 14, 1922.

156,658. TAILORED SUITS. L. R. DOLBY CO., Spokane, Wash.

Filed July 4, 1921. Serial No. 149,994. PUBLISHED FEBRUARY 28, 1922.

156,659. PUMPS AND ROTATING SCREENS FOR REMOVING SOLIDS FROM INDUSTRIAL AND MUNICIPAL WASTE. THE DORR COMPANY, New York, N. Y.

Filed December 28, 1921. Serial No. 157,217. PUBLISHED MARCH 21, 1922.

156,660. DRIED EGG, MERINGUE POWDER, AND PIE FILLING. ECONOMY FOOD PRODUCTS COMPANY, Cambridge, Mass.

Filed February 9, 1920. Serial No. 128,146. PUBLISHED MARCH 21, 1922.

156,661. PHONOGRAPHS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.

Filed January 8, 1921. Serial No. 141,970. PUBLISHED MARCH 21, 1922.

156,662. PHONOGRAPHS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.

Filed January 5, 1921. Serial No. 141,858. PUBLISHED MARCH 21, 1922.

156,663. WALL AND CEILING PLATES AND CONNECTIONS FOR ELECTRIC-LIGHTING FIXTURES AND OTHER ELECTRICAL APPLIANCES. ELECTRIC OUTLET COMPANY, INC., New York, N. Y.

Filed November 18, 1921. Serial No. 155,551. PUBLISHED MAY 2, 1922.

156,664. DISCONNECTING SWITCHES, LIGHTNING ARRESTERS, AND CHOKE COILS. ELECTRICAL ENGINEERS EQUIPMENT COMPANY, Chicago, Ill.

Filed January 24, 1921. Serial No. 142,700. PUBLISHED MAY 2, 1922.

- 155,665. ICE CREAM. ELITE CONFECTIONERY CO., El Paso, Tex., assignor to Elite Chocolate Coated Baseball Company, El Paso, Tex., a Corporation of Texas. Filed November 3, 1921. Serial No. 154,970. PUBLISHED MARCH 14, 1922.
- 156,666. PHONOGRAPH RECORDS. EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y. Filed May 12, 1920. Serial No. 132,346. PUBLISHED JUNE 22, 1920.
- 156,667. LIGHTING ARRESTERS. EDWARD A. EVERETT, trading as Railroad Accessories Corporation, Long Island City, N. Y. Filed September 30, 1921. Serial No. 153,547. PUBLISHED MAY 2, 1922.
- 156,668. STEEL AND STENCIL PATTERN OUTFITS AND CERTAIN GAUGES AND INSTRUMENTS OF PRECISION. THE FAIRBANKS CO., New York, N. Y. Filed January 14, 1921. Serial No. 142,252. PUBLISHED MARCH 21, 1922.
- 156,669. CERTAIN NAMED CIRCUIT-CONTROLLING AND PRESSURE-CONTROLLING DEVICES AND MERCURY TUBES. THE FEDERAL GAUGE COMPANY, Chicago, Ill. Filed January 25, 1922. Serial No. 158,421. PUBLISHED APRIL 11, 1922.
- 156,670. INTERNALLY-SALTED NUTS. JOHN FINN, Jr., Mill Valley, Calif. Filed September 6, 1921. Serial No. 152,620. PUBLISHED JANUARY 24, 1922.
- 156,671. CERTAIN NAMED ELECTRICAL APPARATUS. JOHN FIRTH & Co. Inc., New York, N. Y. Filed January 5, 1922. Serial No. 157,518. PUBLISHED MAY 2, 1922.
- 156,672. PHONOGRAPHS. J. & C. FISCHER, New York, N. Y. Filed January 23, 1922. Serial No. 158,303. PUBLISHED MARCH 21, 1922.
- 156,673. AUGERS, DRILLS, CHISELS, BITS, AND BUSHINGS OR COLLARS FOR HOLLOW CHISELS. FOREST CITY BIT & TOOL CO., Rockford, Ill. Filed October 25, 1921. Serial No. 154,551. PUBLISHED MARCH 21, 1922.
- 156,674. INTERNAL-COMBUSTION ENGINES. FOX MOTOR CAR COMPANY, Philadelphia, Pa. Filed November 25, 1921. Serial No. 155,879. PUBLISHED MARCH 21, 1922.
- 156,675. CIGAR CUTTERS. GOLDSMITH, STERN & CO., New York, N. Y. Filed November 26, 1921. Serial No. 155,959. PUBLISHED MARCH 21, 1922.
- 156,676. CANDY. W. T. GRANT COMPANY, New York, N. Y. Filed November 22, 1921. Serial No. 155,748. PUBLISHED MARCH 28, 1922.
- 156,677. JELLIES, FRUIT PRESERVES, CONSERVES, AND CANNED FRUITS. ISABEL GRAVES, Philadelphia, Pa., and Newton, Mass. Filed October 29, 1921. Serial No. 154,741. PUBLISHED MARCH 28, 1922.
- 156,678. JELLIES, FRUIT PRESERVES, CONSERVES, AND CANNED FRUITS. ISABEL GRAVES, Philadelphia, Pa., and Newton, Mass. Filed October 29, 1921. Serial No. 154,742. PUBLISHED MARCH 28, 1922.
- 156,679. TOMATO CATCHUP, CHILI SAUCE, AND CANNED PORK AND BEANS. GREENABAUM BROS. Inc., Seaford, Del. Filed November 8, 1921. Serial No. 155,169. PUBLISHED MARCH 28, 1922.
- 156,680. A GAME PLAYED WITH PIECES SOMEWHAT SIMILAR TO DOMINOES. ALBERT R. HAGER, Salt Lake City, Utah. Filed October 24, 1921. Serial No. 154,510. PUBLISHED FEBRUARY 14, 1922.
- 156,681. CANDY. CORA ISABELLE HARRADEN, Schenectady, N. Y. Filed October 6, 1921. Serial No. 153,810. PUBLISHED MARCH 28, 1922.
- 156,682. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING SAME. THE REMER-DELL PRODUCTS CORPORATION, Columbia, S. C. Filed April 29, 1921. Serial No. 146,980. PUBLISHED MAY 23, 1922.
- 156,683. HYDRATED LIME, PORTLAND CEMENT, AND FIRE CLAY. HATMAKER & PLACE, Canaan, Conn. Filed October 28, 1921. Serial No. 154,695. PUBLISHED JANUARY 31, 1922.
- 156,684. ELECTRIC FIXTURES—NAMELY, CONNECTION PLUGS AND LAMP SOCKETS. HEMCO ELECTRIC MANUFACTURING COMPANY, INC., New York, N. Y. Filed February 4, 1922. Serial No. 158,868. PUBLISHED MAY 2, 1922.
- 156,685. ELECTRIC FIXTURES—NAMELY, CONNECTION PLUGS AND LAMP SOCKETS. HEMCO ELECTRIC MANUFACTURING COMPANY, INC., New York, N. Y. Filed February 4, 1922. Serial No. 158,869. PUBLISHED MAY 2, 1922.
- 156,686. ICE CREAM. THE HENDLER CREAMERY COMPANY, Baltimore, Md. Filed November 26, 1921. Serial No. 155,964. PUBLISHED MARCH 21, 1922.
- 156,687. ICE CREAM. THE HENDLER CREAMERY COMPANY, Baltimore, Md. Filed November 26, 1921. Serial No. 155,966. PUBLISHED MARCH 21, 1922.
- 156,688. CHOCOLATE, SWEET CHOCOLATE, AND MILK CHOCOLATE. THE HERSHEY CHOCOLATE COMPANY, Hershey, Pa. Filed July 22, 1921. Serial No. 150,809. PUBLISHED MARCH 28, 1922.
- 156,689. ELECTRIC VEHICLE LAMPS. INDIANA LAMP COMPANY, Connorsville, Ind. Filed July 22, 1921. Serial No. 150,812. PUBLISHED MARCH 14, 1922.
- 156,690. MALLEABLE-IRON CASTINGS. IOWA MALLEABLE IRON COMPANY, Fairfield, Iowa. Filed November 18, 1921. Serial No. 155,562. PUBLISHED MARCH 21, 1922.
- 156,691. PREPARED MUSTARD, PEANUT BUTTER, AND VINEGAR IN BOTTLES, BARRELS, AND JUGS. THE JACKSON COMPANY, Dubuque, Iowa. Filed November 3, 1921. Serial No. 154,983. PUBLISHED MARCH 21, 1922.
- 156,692. COFFEE. JEWEL TEA COMPANY, INC., Chicago, Ill. Filed August 1, 1921. Serial No. 151,219. PUBLISHED JANUARY 17, 1922.
- 156,693. CERTAIN NAMED APPARATUS FOR RADIO-SIGNALING. JEWETT MANUFACTURING CORPORATION, Newark, N. J. Filed October 1, 1921. Serial No. 153,603. PUBLISHED MARCH 28, 1922.
- 156,694. MERCERIZED SHOE LACES. WILLIAM C. JOHNSON, Providence, R. I. Filed October 6, 1921. Serial No. 153,812. PUBLISHED FEBRUARY 7, 1922.
- 156,695. CERTAIN NAMED JEWELRY. KATZ & OGUSH, INC., New York, N. Y. Filed January 26, 1922. Serial No. 158,477. PUBLISHED MAY 2, 1922.
- 156,696. ALARM CLOCKS, ALARM WATCHES, AND WATCHES. KIENZLE UHRENFABRIKEN KOMMANDITGESELLSCHAFT, Schwenningen-on-Neckar, Germany. Filed January 27, 1921. Serial No. 142,847. PUBLISHED MAY 2, 1922.

156,697. LAUNDRY WASHING MACHINES AND ELECTRICALLY-DRIVEN LAUNDRY WASHING MACHINES FOR LAUNDRY AND HOUSEHOLD USE. LANDERS, FRARY & CLARK, New Britain, Conn.
Filed June 18, 1921. Serial No. 149,339. PUBLISHED MARCH 14, 1922.

156,698. LIQUID GAUGES, GAUGES FOR MEASURING THE RELATIVE CHANGE IN GRAVITIES OF LIQUIDS, AND GAUGES FOR MEASURING THE PERCENTAGE OF DILUTION OR VISCOSITY OF LIQUIDS. CLIFFORD M. LARSON, Chicago, Ill.
Filed October 31, 1921. Serial No. 154,804. PUBLISHED MARCH 21, 1922.

156,699. CANDY — NAMELY, A CHOCOLATE-FLAVORED BAR OR STICK. LICORICE PRODUCTS COMPANY, Dubuque, Iowa.
Filed November 22, 1921. Serial No. 155,761. PUBLISHED MARCH 21, 1922.

156,700. ELECTRIC - POWER - GENERATING UNITS. LINCOLN LIGHT CORPORATION, Grafton, Wis.
Filed January 3, 1922. Serial No. 157,432. PUBLISHED MAY 2, 1922.

156,701. CANDIES AND CHOCOLATES. WILLIAM H. LUDEN, Reading, Pa.
Filed October 3, 1921. Serial No. 153,671. PUBLISHED MARCH 14, 1922.

156,702. CORSETS AND BRASSIÈRES. FLORENCE E. LUND, Chicago, Ill.
Filed February 3, 1921. Serial No. 143,131. PUBLISHED AUGUST 9, 1921.

156,703. TALKING MACHINES AND MUSIC BOXES. LYON & HEALY, Chicago, Ill.
Filed December 27, 1921. Serial No. 157,158. PUBLISHED MAY 2, 1922.

156,704. ELECTRIC MOTORS AND PARTS THEREOF, SHORT CIRCUITERS, CENTRIFUGALLY-OPERATED ELECTRIC CUT-OUTS. THE MASTER ELECTRIC COMPANY, Dayton, Ohio.
Filed December 6, 1921. Serial No. 156,333. PUBLISHED MARCH 14, 1922.

156,705. GEARS. MERKLE-KORFF GEAR CO., Chicago, Ill.
Filed August 2, 1921. Serial No. 151,280. PUBLISHED MARCH 21, 1922.

156,706. CERTAIN NAMED ELECTRICAL APPARATUS. METROPOLITAN-VICKERS ELECTRICAL COMPANY, LTD., London, England.
Filed December 31, 1920. Serial No. 141,728. PUBLISHED MARCH 28, 1922.

156,707. VAPOR-MIXING DEVICES FOR INTERNAL-COMBUSTION ENGINES. E. C. METTLER CO., Menno, S. Dak.
Filed September 10, 1921. Serial No. 153,098. PUBLISHED MARCH 21, 1922.

156,708. COCOANUT CANDY. MILLEN CANDY CO. INC., Utica, N. Y.
Filed February 7, 1921. Serial No. 143,289. PUBLISHED AUGUST 2, 1921.

156,709. CERTAIN TOOLS AND MACHINERY. MILLERS FALLS COMPANY, Millers Falls, Mass.
Filed October 17, 1921. Serial No. 154,230. PUBLISHED MARCH 21, 1922.

156,710. ELECTRIC CRANES. MILWAUKEE ELECTRIC CRANE & MFG. CO., INC., West Allis, Wis.
Filed December 1, 1921. Serial No. 156,169. PUBLISHED MARCH 14, 1922.

156,711. STARTING SWITCHES AND CIRCUIT INTERRUPTERS. MINIATURE BREAKER CO., INC., Long Island City, N. Y.
Filed January 26, 1922. Serial No. 158,482. PUBLISHED MAY 2, 1922.

156,712. CANNED CHERRIES, CRUSHED PINEAPPLE, PURE HONEY, MAPLE SIRUP, SELECTED OLIVES, PEANUT BUTTER, STRAWBERRY PRESERVES, GRAPE JELLY, AND SALTED PEANUTS. MI-O-MI INC., New York, N. Y.
Filed July 19, 1921. Serial No. 150,626. PUBLISHED MARCH 21, 1922.

156,713. BEAD NECKLACES. MISSION BEAD COMPANY, Los Angeles, Calif.
Filed October 14, 1921. Serial No. 154,087. PUBLISHED MAY 2, 1922.

156,714. TALKING - MACHINE NEEDLES. WALTER E. MORROW, Lancaster, Pa.
Filed January 21, 1922. Serial No. 158,247. PUBLISHED APRIL 25, 1922.

156,715. FIRE BRICK, FURNACE TILE, BAFFLE TILE, HIGH-TEMPERATURE CEMENT. W. E. MUSHET, San Francisco, Calif.
Filed May 12, 1921. Serial No. 147,629. PUBLISHED FEBRUARY 12, 1922.

156,716. FIRE BRICK, FURNACE TILE, BAFFLE TILE, HIGH-TEMPERATURE CEMENT. W. E. MUSHET, San Francisco, Calif.
Filed May 12, 1921. Serial No. 147,630. PUBLISHED JANUARY 31, 1922.

156,717. SANITARY HUMAN-HAIR NETS. NATIONAL COMMODITIES CO., Philadelphia, Pa.
Filed November 2, 1920. Serial No. 139,087. PUBLISHED MARCH 29, 1921.

156,718. WARP-KNITTING MACHINES. NATIONAL KNITTING MACHINE CO. INC., St. Johnsville, N. Y.
Filed December 14, 1921. Serial No. 156,710. PUBLISHED MARCH 21, 1922.

156,719. CANDIES. W. C. NEVIN CANDY CO., Denver, Colo.
Filed October 27, 1921. Serial No. 154,661. PUBLISHED MARCH 28, 1922.

156,720. IMITATION PEARLS. NEW ENGLAND GLASS WORKS, Providence, R. I.
Filed January 12, 1922. Serial No. 157,845. PUBLISHED MARCH 14, 1922.

156,721. CHOCOLATE-COATED MARSHMALLOW AND CARAMEL BAR CANDY. NUTRINE MFG. CO., Chicago, Ill.
Filed November 17, 1921. Serial No. 155,515. PUBLISHED MARCH 28, 1922.

156,722. PRINTING MACHINES AND CERTAIN OTHER MACHINES, AND PARTS AND INKING DEVICES FOR PRINTING MACHINES. THE OMNIGRAPH COMPANY, Des Moines, Iowa.
Filed December 16, 1921. Serial No. 156,799. PUBLISHED MARCH 21, 1922.

156,723. ELECTRIC GAS-FILLED LAMPS. OSRAM G. M. B. H. KOMMANDITGESELLSCHAFT, Berlin, Germany.
Filed June 20, 1921. Serial No. 149,418. PUBLISHED MARCH 14, 1922.

156,724. ELECTRIC INCANDESCENT LAMPS AND CERTAIN NAMED PARTS THEREOF. OSRAM G. M. B. H. KOMMANDITGESELLSCHAFT, Berlin, Germany.
Filed June 27, 1921. Serial No. 149,718. PUBLISHED MARCH 14, 1922.

156,725. CITRUS FRUITS IN THEIR NATURAL STATE. CHAS. C. OYLER & SON, Cincinnati, Ohio.
Filed October 30, 1920. Serial No. 138,995. PUBLISHED MARCH 21, 1922.

156,726. PHONOGRAPHS, PHONOGRAPH RECORDS, PLAYER AND MANUAL PIANOS AND ORGANS, AND PLAYER ROLLS. PACE PHONOGRAPH CORPORATION, New York, N. Y.
Filed December 31, 1921. Serial No. 157,387. PUBLISHED MAY 2, 1922.

- 156,727. TROLLEY GUARDS. WILSON K. PAGE, Olean, N. Y.
Filed November 23, 1921. Serial No. 155,829. PUBLISHED MARCH 14, 1922.
- 156,728. AUTOMOTIVE PARTS—NAMESLY, VALVES FOR INTERNAL-COMBUSTION ENGINES, VALVE SPRINGS, STARTING CRANKS, AND PISTON PINS. THE PARTS SERVICE COMPANY, Cleveland, Ohio.
Filed September 12, 1921. Serial No. 152,863. PUBLISHED MARCH 21, 1922.
- 156,729. HAMS, BACON, AND LARD. PATRICK-YOUNG Co., Richmond, Va.
Filed July 2, 1921. Serial No. 149,976. PUBLISHED FEBRUARY 7, 1922.
- 156,730. INDIAN BLANKETS; WOOL IN PIECE FOR MAKING BATH ROBES, BLANKETS, AND SHAWLS; AND BATH-ROBE BLANKETS, ETC. PENDLETON WOOLEN MILLS, Pendleton, Oreg.
Filed March 31, 1921. Serial No. 145,528. PUBLISHED JUNE 28, 1921.
- 156,731. GIFT RECORD BOOKS. ROSALIE MIRANDA PLACE, Washington, D. C.
Filed February 6, 1922. Serial No. 158,949. PUBLISHED APRIL 4, 1922.
- 156,732. STRINGED MUSICAL INSTRUMENTS THAT ARE EITHER PLUCKED OR BOWED AND THE PARTS THEREOF. ERNST WALTER PLATE, Philadelphia, Pa.
Filed November 7, 1921. Serial No. 155,115. PUBLISHED MAY 2, 1922.
- 156,733. PHONOGRAPH RECORDS. PLAZA MUSIC COMPANY, New York, N. Y.
Filed January 5, 1922. Serial No. 157,534. PUBLISHED MARCH 21, 1922.
- 156,734. VINEGAR. THE POWELL CORPORATION, Canandaigua, N. Y.
Filed November 8, 1921. Serial No. 155,187. PUBLISHED MARCH 28, 1922.
- 156,735. PRINTING MACHINES AND PARTS THEREOF. PRINTATOR, G. M. B. H., Berlin, Germany.
Filed November 9, 1921. Serial No. 155,235. PUBLISHED MARCH 21, 1922.
- 156,736. COOKING FATS. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 31, 1921. Serial No. 145,530. PUBLISHED JUNE 28, 1922.
- 156,737. ELECTRIC SOCKETS. THE M. PROPP Co., New York, N. Y.
Filed November 14, 1921. Serial No. 155,362. PUBLISHED MARCH 14, 1922.
- 156,738. CHEWING GUM. PULVER COMPANY, INC., Rochester, N. Y.
Filed November 17, 1921. Serial No. 155,518. PUBLISHED MARCH 28, 1922.
- 156,739. STOCK WEANERS. THE PURCELL COMPANY, Kansas City, Mo.
Filed November 21, 1921. Serial No. 155,706. PUBLISHED MARCH 21, 1922.
- 156,740. ELECTRICAL LIGHTING FIXTURES AND SUPPLIES—NAMESLY, WIRE, PORCELAIN GOODS, KNOBS, AND TUBES. JOSEPH RABINOVITZ, trading as Modern Light Supply Company, Philadelphia, Pa.
Filed February 16, 1921. Serial No. 143,650. PUBLISHED MAY 2, 1922.
- 156,741. DRESS SHIRTS AND NEGLIGÉE SHIRTS. RAINBOW SHIRT CORPORATION, New York, N. Y.
Filed April 5, 1921. Serial No. 145,754. PUBLISHED AUGUST 9, 1921.
- 156,742. CERTAIN DESCRIBED ELECTRIC PIPE MACHINES. ROBBINS, GAMWELL & COMPANY, Pittsfield, Mass.
Filed November 2, 1921. Serial No. 154,931. PUBLISHED MARCH 14, 1922.
- 156,743. CERTAIN NAMED TOYS. ROGERS CONSTRUCTION COMPANY, Gloucester City, N. J.
Filed February 17, 1921. Serial No. 143,709. PUBLISHED OCTOBER 11, 1921.
- 156,744. AUTOMATIC ADJUSTERS IN THE FORM OF BOLTS WITH SPRING TENSION DEVICES FOR BEARINGS FOR AUTOMOBILES AND OTHER MACHINERY. JOHN F. ROSE, Davenport, Iowa, assignor to Kil-Nock Company, Inc., a Corporation of Iowa.
Filed August 29, 1921. Serial No. 152,348. PUBLISHED MARCH 21, 1922.
- 156,745. CERTAIN NAMED ELECTRICAL APPARATUS. S. SCHMUKLER & SON, Philadelphia, Pa.
Filed January 13, 1922. Serial No. 157,904. PUBLISHED MAY 2, 1922.
- 156,746. HARNESS, SADDLES, BRIDLES, REINS OR LINES, HORSE COLLARS, HAME TUGS, BACKBANDS, TRACES, HALTERS, HORSE BLANKETS, AND COLLAR PADS. THE SCHOELLKOPF Co., Dallas, Tex.
Filed July 29, 1921. Serial No. 151,103. PUBLISHED DECEMBER 27, 1921.
- 156,747. WATCHES AND WATCH MOVEMENTS, DIALS, AND CASES. ADOLPHE SCHWOB, INC., New York, N. Y.
Filed April 7, 1921. Serial No. 145,860. PUBLISHED MAY 2, 1922.
- 156,748. TOILET PAPER. LINTON & SCOTT, New York, N. Y.
Filed July 2, 1921. Serial No. 149,968. PUBLISHED MARCH 14, 1922.
- 156,749. COFFEE, FOOD-FLAVORING EXTRACT, AND TEA. JOHN SCOWCROFT & SONS COMPANY, Ogden, Utah.
Filed January 7, 1921. Serial No. 141,957. PUBLISHED MARCH 21, 1922.
- 156,750. MOLASSES. D. B. SCULLY SYRUP COMPANY, Chicago, Ill.
Filed November 22, 1921. Serial No. 155,776. PUBLISHED MARCH 21, 1922.
- 156,751. A TITLE AND IDENTIFICATION CERTIFICATE, BEING A BLANK FORM. SECURITY CERTIFICATE COMPANY, Los Angeles, Calif.
Filed October 19, 1920. Serial No. 138,522. PUBLISHED FEBRUARY 21, 1922.
- 156,752. FINGER RINGS. M. SEIGER & SON, New York, N. Y.
Filed November 14, 1921. Serial No. 155,372. PUBLISHED MAY 2, 1922.
- 156,753. CHEWING GUM. THE SHELBY SUPPLY AND MANUFACTURING COMPANY, Cleveland, Ohio.
Filed May 25, 1918. Serial No. 111,190. PUBLISHED AUGUST 24, 1920.
- 156,754. BATTERY BOXES. THE SILURIUM MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 19, 1922. Serial No. 158,157. PUBLISHED MARCH 28, 1922.
- 156,755. STORAGE BATTERIES. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed December 16, 1921. Serial No. 156,811. PUBLISHED MAY 2, 1922.
- 156,756. ARTICLES OF CUTLERY—NAMESLY, TABLE KNIVES OF BASE METAL, BUTCHER KNIVES, KITCHEN KNIVES, POCKETKNIVES, RAZORS, AND SCISSORS. SOCIÉTÉ GÉNÉRALE DE COUTELLERIE & ORFÈVREURIE, Paris, France.
Filed October 27, 1921. Serial No. 154,664. PUBLISHED MARCH 21, 1922.
- 156,757. ARTICLES OF CUTLERY—NAMESLY, TABLE KNIVES OF BASE METAL, BUTCHER KNIVES, KITCHEN KNIVES, POCKETKNIVES, RAZORS, AND SCISSORS. SOCIÉTÉ GÉNÉRALE DE COUTELLERIE & ORFÈVREURIE, Paris, France.
Filed October 27, 1921. Serial No. 154,665. PUBLISHED MARCH 21, 1922.

156,758. GRAND AND UPRIGHT PIANOS, PLAYER PIANOS, AND ELECTRICALLY-OPERATED PIANOS. THE SPECTOR & SON PIANO CO. INC., New York, N. Y.

Filed November 7, 1921. Serial No. 155,126. PUBLISHED MARCH 14, 1922.

156,759. LOAD BINDERS. EUGENE C. STACY, Tiffin, Ohio.

Filed June 2, 1921. Serial No. 148,561. PUBLISHED MARCH 21, 1922.

156,760. CANDIES; AND CONFECTIONS IN THE NATURE OF CANDIES, SUCH AS PEANUT BRITTLE, POP-CORN BRITTLE, MOLASSES POP CORN AND CRISPETTES. JOHN D. STEM, Asbury Park, N. J.

Filed October 11, 1921. Serial No. 153,999. PUBLISHED MARCH 14, 1922.

156,761. WRITING INKS. HARRY STOLZER, New York, N. Y.

Filed November 23, 1921. Serial No. 155,834. PUBLISHED MARCH 14, 1922.

156,762. CENTRIFUGAL FANS. B. F. STURTEVANT COMPANY, Boston, Mass.

Filed January 3, 1922. Serial No. 157,445. PUBLISHED MARCH 21, 1922.

156,763. ELECTRIC STOVES. THE STEROLECTRIC COMPANY, Muncie, Ind.

Filed January 27, 1922. Serial No. 158,545. PUBLISHED MARCH 28, 1922.

156,764. COFFEE. ST. LOUIS COFFEE & SPICE MILLS, St. Louis, Mo.

Filed July 6, 1920. Serial No. 134,609. PUBLISHED FEBRUARY 21, 1922.

156,765. LAUNDRY WASHING MACHINES. SUNNY LINE APPLIANCES, INC., Detroit, Mich.

Filed February 26, 1921. Serial No. 144,108. PUBLISHED MAY 2, 1922.

156,766. CHOCOLATE CANDY. THEODORE BROS. CHOCOLATE CO., St. Louis, Mo.

Filed November 22, 1921. Serial No. 155,790. PUBLISHED MARCH 28, 1922.

156,767. DISTILLED VINEGAR, CIDER VINEGAR, SALAD DRESSING, PREPARED MUSTARD, HONEY, COFFEE, COCOA, PEANUT BUTTER, CANNED VEGETABLES, AND CANNED FRUITS. TRINITY GROCERY CO., Dallas, Tex.

Filed November 8, 1921. Serial No. 155,198. PUBLISHED MARCH 21, 1922.

156,768. ADDING MACHINES AND ADDING-MACHINE ATTACHMENTS. TYPE-ADDER MFG. CORP., New York, N. Y.

Filed November 13, 1920. Serial No. 139,637. PUBLISHED MARCH 28, 1922.

156,769. FINGER RINGS WHICH ARE MADE OF OR PLATED WITH PRECIOUS METALS. UNCAS MANUFACTURING CO., Providence, R. I.

Filed January 21, 1922. Serial No. 158,269. PUBLISHED MAY 2, 1922.

156,770. STORAGE BATTERIES. UNITED AUTO ELECTRIC SERVICE, INC., Newark, N. J.

Filed December 30, 1921. Serial No. 157,345. PUBLISHED MAY 2, 1922.

156,771. FRESH DATES. VAN DYK AND REEVES, Brooklyn, N. Y., assignor to Van Dyk and Reeves, Inc., Brooklyn, N. Y., a Corporation of New York.

Filed October 25, 1921. Serial No. 154,575. PUBLISHED MARCH 28, 1922.

156,772. CANNED FRUITS AND VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.

Filed November 1, 1921. Serial No. 154,903. PUBLISHED MARCH 28, 1922.

156,773. CANNED FRUITS AND CANNED VEGETABLES. VIRDEN PACKING COMPANY, Oakland, Calif.

Filed November 1, 1921. Serial No. 154,899. PUBLISHED MARCH 28, 1922.

156,774. READY-MIXED PAINTS AND PAINT ENAMELS. THE VOLTAX COMPANY, Bridgeport, Conn.

Filed October 2, 1920. Serial No. 137,867. PUBLISHED MAY 31, 1921.

156,775. CHEMICAL-CONTROL EQUIPMENT FOR WATER PURIFICATION, CHLORINE-CONTROL APPARATUS, AND CERTAIN OTHER NAMED APPARATUS. WALLACE & TIERNAN CO., INC., Newark, N. J.

Filed June 30, 1921. Serial No. 149,877. PUBLISHED MARCH 21, 1922.

156,776. JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. WILLIAM A. WATERS COMPANY, Newark, N. J.

Filed July 2, 1921. Serial No. 149,991. PUBLISHED MARCH 14, 1922.

156,777. CANDIES. SETH W. WATSON, Saginaw, Mich.

Filed November 2, 1921. Serial No. 154,947. PUBLISHED MARCH 21, 1922.

156,778. CIGARS, CIGARETTES; SMOKING, CHEWING, AND PLUG TOBACCO. THE WEIDEMAN COMPANY, Cleveland, Ohio.

Filed November 17, 1921. Serial No. 155,528. PUBLISHED FEBRUARY 7, 1922.

156,779. JAM, JELLY, FRUIT PRESERVES, AND CONSERVES. THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y.

Filed January 21, 1921. Serial No. 142,571. PUBLISHED MARCH 21, 1922.

156,780. COFFEE. THE WEPFNER-WEIL COMPANY, Cleveland, Ohio.

Filed November 9, 1921. Serial No. 155,244. PUBLISHED MARCH 28, 1922.

156,781. CERTAIN NAMED RADIO MECHANISM. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.

Filed October 5, 1921. Serial No. 153,778. PUBLISHED MARCH 14, 1922.

156,782. FINISHED STRINGS FOR STRINGED MUSICAL INSTRUMENTS, SUCH AS VIOLINS AND THE LIKE. H. A. WEYMANN & SON, INC., Philadelphia, Pa.

Filed December 10, 1917. Serial No. 107,890. PUBLISHED MARCH 14, 1922.

156,783. TOILET PAPER. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.

Filed January 26, 1922. Serial No. 158,501. PUBLISHED FEBRUARY 28, 1922.

156,784. CERTAIN NAMED MUSICAL INSTRUMENTS AND SUPPLIES. D. L. WHITTLE MUSIC COMPANY, Dallas, Tex.

Filed January 14, 1921. Serial No. 142,277. PUBLISHED MARCH 14, 1922.

156,785. PIANO TRAPWORK, WIRE, AND PEDALS. THE WIDNEY COMPANY, Chicago, Ill.

Filed November 3, 1920. Serial No. 139,138. PUBLISHED MARCH 14, 1922.

156,786. BELT BUCKLES, SHOE BUCKLES, CLOTHING BUCKLES, GARTER BUCKLES, ALL OF SAID ARTICLES BEING MADE OF PRECIOUS METAL OR IMITATION OF PRECIOUS METAL. WIGHTMAN & HOUGH COMPANY, Providence, R. I.

Filed November 21, 1921. Serial No. 155,724. PUBLISHED MAY 2, 1922.

156,787. STRINGS FOR VIOLINS AND SIMILAR MUSICAL INSTRUMENTS. WILLIAM VOIT CO., New York, N. Y.

Filed November 9, 1921. Serial No. 155,241. PUBLISHED MARCH 14, 1922.

156,788. LIQUID METERS, PISTON METERS, DISK METERS, TURBINE METERS, BOILER-FEED METERS, DISK COUNTERS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.

Filed June 24, 1921. Serial No. 149,606. PUBLISHED MARCH 21, 1922.

156,789. LIQUID METERS, PISTON METERS, DISK METERS, TURBINE METERS, WEIGHT METERS, FLOW METERS, BOILER-FEED METERS, DISK COUNTERS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.

Filed June 24, 1921. Serial No. 149,611. PUBLISHED MARCH 21, 1922.

156,790. BATTERY LIGHTING PLANTS, ELECTRIC-LIGHTING PLANTS, SWITCHBOARDS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y.

Filed June 24, 1921. Serial No. 149,612. PUBLISHED MARCH 21, 1922.

156,791. COMPUTING MACHINES FOR COMPUTING RATES OF INTEREST AND FOR COMPUTING PAY ROLLS. YARD-O-METER CORPORATION, St. Louis, Mo.

Filed June 27, 1921. Serial No. 149,733. PUBLISHED MARCH 21, 1922.

156,792. EXPLOSIVE ENGINES. YELLOW JACKET MANUFACTURING COMPANY, Portland and Anderson, Ind.

Filed October 29, 1921. Serial No. 154,781. PUBLISHED MARCH 21, 1922.

156,826. CERTAIN NAMED JEWELRY. OVINGTON BROS. COMPANY, New York, N. Y.

Filed January 18, 1921. Serial No. 142,403. PUBLISHED MAY 2, 1922.

156,827. RUBBER OR RUBBER AND FABRIC TIRES AND TUBES FOR VEHICLES. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Wilmington, Del., and Chicago, Ill.

Filed November 2, 1917. Serial No. 107,101. PUBLISHED APRIL 18, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 11, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,793. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET Co., Detroit, Mich. Filed Aug. 1, 1921. Serial No. 151,193.



The words "Reg. U. S. Pat. Off." apart from the mark shown are disclaimed.

Particular description of goods.—Corsets.

Claims use since July 1, 1919.

156,794. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed Sept. 26, 1921. Serial No. 153,327.

ARDEN

Particular description of goods.—Wedding Paper, Announcement Cards, and Mailing Envelopes.

Claims use since Mar. 1, 1920.

156,795. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Mar. 25, 1921. Serial No. 145,206.

CRÊPE ROMAIN

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China Grass.

Claims use since Sept. 4, 1920.

156,796. (CLASS 37. PAPER AND STATIONERY.) J. W. BUTLER PAPER COMPANY, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 139,944.

MANUSCRIPT BOND

Particular description of goods.—Bond Paper for Printing, Lithographing, Pen and Ink, and Typewriting Purposes.

Claims use since 1902.

156,797. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DAYTON PUMP & MANUFACTURING COMPANY, Dayton, Ohio. Filed Feb. 2, 1922. Serial No. 158,760.



Particular description of goods.—Electrical House Pumps, Electrical Water Systems, Electrical Gasoline Pumps, and Electrical Combined Pumps and Tanks.

Claims use since 1911.

156,798. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE EDWARD BLOOM CO. INC., New London, Conn., and Paterson, N. J. Filed Apr. 22, 1922. Serial No. 162,715.

NEW LONDON SILKS

Particular description of goods.—Silk Piece Goods.

Claims use since July, 1920.

156,799. (CLASS 39. CLOTHING.) LOUIS M. FURMAN, Brooklyn, N. Y. Filed Dec. 28, 1921. Serial No. 157,220.



Particular description of goods.—Trousers, Overcoats, and Suits for Men and Boys.

Claims use since 1911.

156,800. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. GROSSMANN & Co., INC., New York, N. Y. Filed Apr. 27, 1922. Serial No. 162,990.

KIRK WALL GINGHAM

Particular description of goods.—Cotton Piece Goods.

Claims use since Oct. 1, 1920.

156,801. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,086.

COLUMBIA

Particular description of goods.—Artists' Brushes.
Claims use since February, 1905.

156,802. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,089.

PERFECT

Particular description of goods.—Artists' Brushes
Claims use since Jan. 1, 1905.

156,803. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MAX GRUMBACHER, New York, N. Y. Filed Mar. 22, 1922. Serial No. 161,095.



Particular description of goods.—Artists' Brushes.
Claims use since Jan. 1, 1910.

156,804. (CLASS 37. PAPER AND STATIONERY.) IDEAL COATED PAPER COMPANY, Brookfield, Mass. Filed Apr. 1, 1920. Serial No. 130,476.

NOKAKE

Particular description of goods.—Gummed Paper.
Claims use since October, 1916.

156,805. (CLASS 39. CLOTHING.) THE JACKSON & GUTMAN COMPANY, Salisbury, Md. Filed July 1, 1921. Serial No. 149,900.

Salisbury

Particular description of goods.—Negligee Shirts.
Claims use since July, 1896.

156,806. (CLASS 39. CLOTHING.) THE KROHN-FECHHEIMER Co., Cincinnati, Ohio. Filed Jan. 11, 1921. Serial No. 142,080.



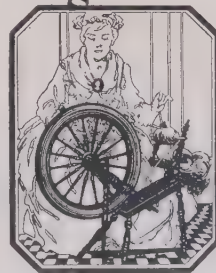
TRADE MARK

Particular description of goods.—Ladies' and Misses' Leather Shoes.
Claims use since October, 1898.

156,807. (CLASS 43. THREAD AND YARN.) LAUERMAN BROS. Co., INC., Marinette, Wis. Filed Aug. 23, 1921. Serial No. 152,079.

Ostralian

Knitting Worsted



Particular description of goods.—Knitting Worsted.
Claims use since January, 1917.

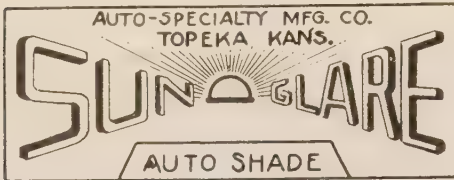
- 156,808. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES MCCREERY & COMPANY, New York, N. Y. Filed Jan. 9, 1922. Serial No. 157,675.

"McCreery Silks"

Particular description of goods.—Silk and Satin Piece Goods.

Claims use since Jan. 1, 1907.

- 156,809. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BURTON H. PUGH, Topeka, Kans. Filed Sept. 27, 1921. Serial No. 153,405.



No claim is made to the words "Topeka" and "Kans." *Particular description of goods.*—Windshield Sunshades. *Claims use* since Apr. 23, 1921.

- 156,810. (CLASS 39. CLOTHING.) ROSLYN RACILLE, New York, N. Y., assignor to Alton Fruchter, New York, N. Y. Filed Apr. 9, 1921. Serial No. 145,969.

Racille

Particular description of goods.—Ladies' Hats. *Claims use* since Mar. 31, 1921.

- 156,811. (CLASS 39. CLOTHING.) ROGGEN BROS. & Co., New York, N. Y. Filed Jan. 18, 1922. Serial No. 158,095.

TROY-TAILORED SHIRTS

Particular description of goods.—Dress and Negligee Shirts.

Claims use since July, 1920.

- 156,812. (CLASS 39. CLOTHING.) LOU J. SCHILLER, New York, N. Y. Filed Dec. 15, 1921. Serial No. 156,764.

"All-Ready"

Particular description of goods.—Ready-Made Hat Linings.

Claims use since Dec. 1, 1913.

- 156,813. (CLASS 39. CLOTHING.) HARRY G. SELTZER, Reading, Pa. Filed June 20, 1921. Serial No. 149,426.

XLS-ALL

Particular description of goods.—Hosiery, Underwear, Wristlets, Neckties, Sweaters, Bathing Suits, Caps, Gloves, and Scarfs of Knitted Fabric for Men, Women, and Children.

Claims use since Apr. 23, 1921.

- 156,814. (CLASS 39. CLOTHING.) THE S & S SHIRT COMPANY, Phillipsburg, Pa. Filed May 4, 1921. Serial No. 147,216.

**The Clearfield
OVERALL**

Particular description of goods.—Overalls. *Claims use* since October, 1916.

- 156,815. (CLASS 39. CLOTHING.) S. SHOPIRO COMPANY, INC., Syracuse and New York, N. Y. Filed July 12, 1921. Serial No. 150,293.

DOUBLE SEAT TROUSERS

Particular description of goods.—Young Men's and Boys' Double-Seat Trousers.

Claims use since Jan. 2, 1920.

- 156,816. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SIMON DAVID ROSENFELD, Philadelphia, Pa. Filed May 19, 1921. Serial No. 147,941.



Particular description of goods.—Sole-Leather Cut Stock Strips.

Claims use since Jan. 3, 1921.

- 156,817. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Mar. 22, 1921. Serial No. 145,090.

SAVOY

Particular description of goods.—Talking Machines, Phonographs, and Music Boxes.

Claims use since on or about November, 1920.

156,818. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STRONG, HEWAT & Co., INC., North Adams, Mass., and New York, N. Y. Filed Apr. 18, 1922. Serial No. 162,515.



Particular description of goods.—Woolen Piece Goods.
Claims use since June 28, 1918.

156,819. (CLASS 17. TOBACCO PRODUCTS.) THOMPSON & COMPANY, Tampa, Fla. Filed May 12, 1922. Serial No. 163,769.

THOMPSON & COMPANY

Particular description of goods.—Cigars, Smoking Tobacco, and Cigarettes.
Claims use since Nov. 1, 1915.

156,820. (CLASS 2. RECEPTACLES.) UTILITY MANUFACTURING COMPANY, INC., Goldsboro, N. C. Filed Oct. 29, 1921. Serial No. 154,776.

AQUATITE

Particular description of goods.—Built-Up Packing Cases Made of Waterproof Panels.
Claims use since Jan. 15, 1911.

156,821. (CLASS 39. CLOTHING.) VENUS MANUFACTURING COMPANY, Minneapolis, Minn. Filed Nov. 28, 1921. Serial No. 156,035.

DOUBLE SERVICE KUFF REVERSIBLE

Particular description of goods.—Shirts with Reversible Cuffs.
Claims use since Aug. 16, 1918.

156,822. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VICTOR-MONAGHAN COMPANY, Greenville, S. C. Filed July 14, 1921. Serial No. 150,381.

PANAMA

Particular description of goods.—Cotton Piece Goods.
Claims use since October, 1907.

156,823. (CLASS 37. PAPER AND STATIONERY.) THE WAHL COMPANY, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 144,598.

WAHL

Particular description of goods.—Fountain Pen and Parts Thereof.

Claims use since Sept. 1, 1918.

156,824. (CLASS 11. INKS AND INKING MATERIALS.) WATERS & WATERS MFG. Co., St. Louis, Mo. Filed May 8, 1922. Serial No. 163,557.

Old Dutch

Particular description of goods.—Typewriter Ribbons, Carbon Paper, and Certain Named Inks.

Claims use since May 13, 1912.

156,825. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEST POINT MANUFACTURING COMPANY, Langdale, Ala. Filed Apr. 28, 1922. Serial No. 163,062.

FAIRFAX

Particular description of goods.—Crash, Towels, and Toweling.

Claims use since June, 1917.

TRADE-MARK REGISTRATIONS RENEWED.

20,950. CEMENT. Registered April 5, 1892. THE BURHAM BRICK, LIME AND CEMENT COMPANY, (LIMITED,) Burham and London, England; The Associated Portland Cement Manufacturers Limited, assignee. Renewed April 5, 1922.

20,974. PLOWS. Registered April 12, 1892. DEERE & COMPANY, Moline, Ill.; Deere & Company, a Corporation of Illinois, assignee. Renewed April 12, 1922.

21,346. WOVEN MACHINE BELTING. Registered June 21, 1892. F. REDDAWAY & Co., Manchester, England, and New York, N. Y.; Rossendale-Reddaway Belting & Hose Company, a Corporation of New Jersey, assignee. Renewed June 21, 1922.

21,782. A PRESERVATIVE FOR BEER. Registered September 27, 1892. A. BOAKE, ROBERTS & Co., London, England; A. Boake Roberts and Company, Ltd., London, England, assignee. Renewed September 27, 1922.

22,105. KNIT UNDERWEAR. Registered December 6, 1892. THE UNITED KNITTING WORKS COMPANY, (LIMITED,) Aarburg, Switzerland. Renewed December 6, 1922.

LABELS

REGISTERED JULY 11, 1922.

- | | |
|--|---|
| <p>24,694.—<i>Title:</i> "HYGENO." (For a Whole-Wheat Flour.) ALBERS BROS. MILLING Co., Seattle, Wash. Filed June 3, 1922.</p> <p>24,695.—<i>Title:</i> "BECKWITH." (For Fancy Kadota Figs.) THE BECKWITH Co., Reedley, Calif. Filed June 3, 1922.</p> <p>24,696.—<i>Title:</i> "LIGHTNIN." (For an Insecticide.) CHARLESTON DRUG MFG. Co., Charleston, S. C. Filed June 3, 1922.</p> <p>24,697.—<i>Title:</i> "DOUBLE EAGLE." (For Fresh Pears.) LLEWELLYN B. DUTTON, San Jose, Calif. Filed May 25, 1922.</p> <p>24,698.—<i>Title:</i> "DE LUXE TU-TONE." (For Powder Puffs.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed June 3, 1922.</p> <p>24,699.—<i>Title:</i> "'BEST-EVER' SPONGE BALL." (For a Rubber Ball with Rubber Sponge Center.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed June 3, 1922.</p> <p>24,700.—<i>Title:</i> "FLOR DE ANSON." (For Cigars, Cigarettes, and Tobacco.) THEODORE J. HUENING, Burlington, Wis. Filed June 2, 1922.</p> <p>24,701.—<i>Title:</i> "KELCOMEAL." (For a Food.) KEHLOR FLOUR MILLS Co., St. Louis, Mo. Filed June 3, 1922.</p> | <p>24,702.—<i>Title:</i> "CROWN." (For Salmon.) THE MACLEAY ESTATE Co., Portland, Oreg. Filed June 3, 1922.</p> <p>24,703.—<i>Title:</i> "ROYAL." (For Salmon.) THE MACLEAY ESTATE Co., Portland, Oreg. Filed June 3, 1922.</p> <p>24,704.—<i>Title:</i> "MARSHEL'S BLUE FOUNTAIN PEN INK." (For Packages of Blue Ink.) BLAINE M. MARSHEL, New Albany, Ind. Filed June 3, 1922.</p> <p>24,705.—<i>Title:</i> "REAL-LAGER." (For a Cereal Beverage.) THE OERTEL Co. INCORPORATED, Louisville, Ky. Filed June 3, 1922.</p> <p>24,706.—<i>Title:</i> "PRIMA." (For Barley Malt Extract.) PRIMALT PRODUCTS Co., Chicago, Ill. Filed June 3, 1922.</p> <p>24,707.—<i>Title:</i> "PRIMA." (For Ginger Ale.) PRIMALT PRODUCTS Co., Chicago, Ill. Filed June 3, 1922.</p> <p>24,708.—<i>Title:</i> "BATES." (For Hops.) A. J. RAY & SON, INC., Portland, Oreg., doing business as Hugo V. Loewi, Inc. Filed June 3, 1922.</p> <p>24,709.—<i>Title:</i> "MT. HOOD." (For Hops.) A. J. RAY & SON, INC., Portland, Oreg., doing business as Hugo V. Loewi, Inc. Filed June 3, 1922.</p> <p>24,710.—<i>Title:</i> "GRIZZLY GRIP." (For White Rubber Patch.) 20TH CENTURY TIRE PROTECTOR Co., Midlothian, Tex. Filed June 3, 1922.</p> |
|--|---|

PRINTS

REGISTERED JULY 11, 1922.

- | | |
|--|--|
| <p>6,209.—<i>Title:</i> "HOSE MULCONROY." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, Etc.) MULCONROY COMPANY, INC., Philadelphia, Pa. Filed May 27, 1922.</p> | |
|--|--|

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

STEIN *v.* DOSCH.

No. 1487. Decided April 3, 1922.

1. PATENTS — INTERFERENCE — AMENDMENT OF PRELIMINARY STATEMENT.

Where the preliminary statement of an experienced inventor, made after at least two consultations with his attorney, stated that he first reduced the invention to practice on a specified date, the refusal to permit him to amend the preliminary statement, after he had seen statement of the adverse party, to allege the making and operation of a machine embodying the invention more than two years before the date stated in his first statement was not an abuse of discretion.

2. SAME — SAME — PRIORITY AWARDED TO THE JUNIOR PARTY.

Where in interference proceedings involving a simple improvement in driving shaft for power-driven sewing machines the junior applicant showed a reduction to practice prior to the filing date of the senior applicant, *Held* that the junior party is entitled to priority.

Mr. Charles J. Williamson for Stein.

Mr. John F. Heine and *Mr. George F. Scull* for Dosch.

ROBB, J.:

Appeal from a Patent Office decision in an interference proceeding awarding priority of invention to the junior party Dosch.

The invention is a very simple one. Power-driven sewing machines are arranged in series on either side of a so-called table. In the prior art the driving shaft was located considerably below the table and this invention consists in moving that shaft to a position directly under the table. It is expressed in four counts, of which the first, here reproduced, is sufficiently illustrative:

1. As an improvement in power mechanism for sewing machines, the combination of a table supporting a series of sewing machines and having a depression, a driving shaft located in such depression, driving wheels on said shaft, and means for transmission of power from said wheels to sewing machines supported on the table top.

In his preliminary statement, which was the result of at least two interviews with his attorney, Stein, already somewhat experienced as an inventor, alleged that he conceived, disclosed and made drawings of the invention "in the fall of 1914, and made other drawings in or about July, 1916"; that a written description of the invention "was first made on or about January 27, 1917"; that he first reduced the invention to practice "on or about March 15,

1917," by filing his application; "that he has built no machine embodying said invention." After he had seen the preliminary statement of Dosch, he moved to amend his preliminary statement by alleging the making and operation, in December of 1914, of a full-sized machine embodying the invention. This machine, he alleges, was set up on a Sunday, operated for a short time in the presence of his brother, and dismantled on the same day. The Examiner of Interferences said:

An examination of Stein's testimony shows that he is a person of keen perception and ready understanding. It appears most unusual that Stein should have had two conferences with an experienced attorney in regard to the preparation of the preliminary statement and in his description of the conception of and development of the invention should have failed to mention the only device he ever constructed or the only test that he ever made of his invention. * * * To allow a party to amend his preliminary statement in the manner here asked, after having seen the other party's dates, would tend to negative the value or utility of preliminary statements unless such amendment was accompanied with a clear and satisfactory showing in support thereof.

Accordingly, the motion to amend was denied by the Examiner, and his action was sustained by the higher tribunals.

We concur in the ruling denying to Stein the right to amend his preliminary statement. Certainly no abuse of discretion has been shown. (*Blaw v. Whittall*, 43 App. D. C., 20; 213 O. G., 749.)

Drawings of the Dosch machine were made in August of 1916 and a table embodying the invention was constructed in the latter part of that year. The Examiner of Interferences was not satisfied that reduction to practice prior to Stein's filing date had been shown. The Examiners-in-Chief and the Assistant Commissioner, however, after a careful review of the evidence, reached the conclusion that such reduction to practice by Dosch clearly appeared, and the question is so free from doubt, in our view, that we accept their ruling without further discussion of the evidence. As already stated, the invention is a very simple one and the later changes made in the table were purely mechanical. As was said by the Assistant Commissioner, in speaking of Dosch's early table:

The assembly of such a structure followed by operation in which the machines were started and stopped and sewing was done would appear to be sufficient to demonstrate whether or not the device was capable of successfully performing the work for which it was intended. * * * The testimony appears to clearly show that the results of the test were satisfactory to those concerned.

Since Stein was lacking in diligence, the decision awarding priority to Dosch was correct and must be affirmed.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Calif.) The Boyle reissue patent, No. 14,695, for canteen, *Held* valid and infringed. *Woolwine Metal Products Co. v. Boyle*, 279 Fed. Rep., 609.

(U. S. C. C. A. N. Y.) The Gans patent, No. 1,195,923, claims 1 and 5, for apparatus for softening water by zeolites, *Held* not anticipated and infringed. *Permutit Co. v. Harvey Laundry Co.*, 279 Fed. Rep., 713.

(U. S. C. C. A. Wash.) The Heath patent, No. 1,215,149, for improvement in hollow wall construction, *Held* valid and infringed. *Heath Unit Tile Co. v. American Fire Brick Co.*, 279, Fed. Rep., 743.

(U. S. D. C. Del.) The Onderdonk patent, No. 1,123,576, for sewing machine, *Held* not infringed. *Union Special Mach. Co. v. Metropolitan Sewing Machine Corporation*, 279 Fed. Rep., 770.

(U. S. C. C. A. Ill.) The Smith reissue patent, No. 11,536, for cylinder frame for scales, infringed by use of steel spider. *Computing Scale Co. v. Toledo Computing Scale Co.*, 279 Fed. Rep., 648.

(U. S. D. C. Del.) The Weis patents, Nos. 1,025,552, 1,155,533, and 1,155,534, for trimming mechanism for sewing machines, *Held* not infringed. *Union Special Mach. Co. v. Metropolitan Sewing Mach. Corporation*, 279 Fed. Rep., 770.

(U. S. D. C. Del.) The Weis patent, No. 1,026,839, for mechanism for sewing machines, *Held* void for anticipation. *Union Special Mach. Co. v. Metropolitan Sewing Mach. Corporation*, 279 Fed. Rep., 770.

(U. S. D. C. Del.) The Weis & Weis patent, No. 1,230,355, for sewing machine, claim 29 *Held* valid, but not infringed. *Union Special Mach. Co. v. Metropolitan Sewing Mach. Corporation*, 279 Fed. Rep., 770.

(U. S. C. C. A. Pa.) The White patent, No. 1,173,413, for electric-wire terminals, *Held* valid and infringed. *White v. Goodrich-Lenhart Mfg. Co.*, 279 Fed. Rep., 741.

PATENT SUITS.

[Notices under section 4921, Revised Statutes, as amended February 18, 1922.]

714,882, O. Ernst, Manufacture of orange-yellow to red monoazo dyestuffs, etc.; 741,029, R. Gley & O. Siebert, Red azo dye lake; 770,177, Julius, Reindel & Günther, Process of producing dyestuffs; 807,422, K. Elbel, Manufacture of new zinc compounds; 858,065, Ernst & Gullbransson, Making a monoazo dyestuff suitable for the preparation of dye lakes; suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 389-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. and F. White*.

718,340. (See 892,897.)

741,029. (See 714,882.)

770,177. (See 714,882.)

807,422. (See 714,882.)

824,809, L. D. Pickett, Lubricator, suit filed June 20, 1922, U. S. D. C., N. D. Ohio (E. Div.), Doc. 738, *L. D. Pickett v. The F. B. Stearns Co.*

858,065. (See 714,882.)

874,008, 1,026,037, 1,026,090, B. Holt, Traction engines; 1,111,583, P. E. Holt, Traction belts for tractors; 1,194,269, C. L. Best, Traction engines; 1,258,602, W. Turnbull, Tractor; suit filed U. S. D. C., N. D. Calif. (2d Div.), Doc. 594-Eq., *The Holt Mfg. Co. v. The Cleveland Tractor Co.* Final decree entered June 9, 1922, adjudging defendant infringed certain claims.

892,897, Schirmacher & Landers, Red vat dyestuffs; 916,029, Schmidt & Bryk, Making new vat dyestuffs; 965,170, K. Elbel, Manufacture of dyestuffs; 968,697, Schmidt, Bryk & Voss, Manufacture of dyestuffs; 999,439, Elbel & Wray, Manufacture of dyestuffs; 718,340, O. J. Graul, Process of making dyestuffs; suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 388-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. and F. White*.

916,029. (See 892,897.)

931,598, L. Haas, Sulphur dyes and process of making same, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 390-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. and F. White*.

958,478, W. E. Davey, Process of reenforcing trees, suit filed June 22, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 387-C, *Davey Tree Expert Co. v. A. Lothian*.

959,976, E. C. Wallace, Composite pavements, suit filed February 15, 1921, U. S. D. C., S. D. Calif., Doc. F 1, *Warren Bros. Co. v. Thompson Bros., H. E. Vogel & J. B. Hill*. Decree of dismissal entered June 1, 1922.

965,170. (See 892,897.)

968,697. (See 892,897.)

986,148. (See 1,116,398.)

998,789, P. Mayer, Dredge-bucket mounting, suit filed June 10, 1922, U. S. D. C., N. D. Calif. (2d Div.), Doc. 743-Eq., *J. A. Shearer v. Pratt Building Material Co.*; Doc. 744-Eq., *J. A. Shearer v. Santa Clara Gravel Co.*

999,439. (See 892,897.)

1,026,037. (See 874,008.)

1,026,090. (See 874,008.)

1,043,276, W. H. Volck, Process and apparatus for the manufacture of lime-sulphur solution, suit filed June 14, 1922, U. S. D. C., E. Wash., Doc. 991, *California Spray-Chemical Co. v. Yakima Rex Spray Co.*

1,081,592. (See 1,116,398.)

1,081,897. (See 1,116,398.)

1,111,583. (See 874,008.)

1,116,398, 986,148, 1,081,592, 1,081,897, Re. 13,848 (original 1,053,300), P. Ehrlich and A. Bertheim, Medicinal preparations, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 392-C, *The Chemical Foundation Inc. v. Diarsenol Co., Inc., and F. White*.

1,141,470. (See Re. 13,617.)

1,157,046, J. Roussio, 1,295,578, A. A. Olson, Towel cabinet, suit filed June 20, 1922, U. S. D. C., Mich., Doc. 472, *J. Roussio v. Detroit Towel Supply Co.*

1,185,394, A. E. Greene, Process of melting scrap metal, suit filed May 8, 1922, U. S. D. C., W. D. Wash., Doc. 295-E, *Greene Electric Furnace Co. v. Everett Steel Co.* Dismissed May 11, 1922.

1,194,269. (See 874,008.)

1,201,594, E. W. King, Mechanism for priming and operating centrifugal pumps, suit filed June 26, 1922, Doc. 220, *E. W. King v. The Seagraves Co.*

1,223,185. (See Re. 13,617.)

1,226,526, U. S. Jenkins, Apparatus and method of separating and refining petroleum, etc.; 1,321,749, same, Apparatus for treating petroleum products; 1,239,423, A. D. Smith, Manufacture of gasoline; 1,247,883, S. Schwartz, Method and apparatus for treating heavier hydrocarbons; 1,295,223, A. D. Smith, Shaft bearings for stills; 1,324,075, A. D. Smith, Process of manufacturing gasoline; 1,374,402, A. D. Smith, Apparatus for distilling petroleum oils; suit filed June 19, 1922, U. S. D. C., W. D. Mo., Doc. 368, *Jenkins Petroleum Process Co. v. C. H. Apple, H. R. Heyne, E. C. Higgins and American Gasoline Corp.*

1,239,423. (See 1,226,526.)

1,247,883. (See 1,226,526.)

1,258,602. (See 874,008.)

1,295,223. (See 1,226,526.)

1,295,578. (See 1,157,046.)

1,321,749. (See 1,226,526.)

1,324,075. (See 1,226,526.)

1,343,599, H. F. Waite, X-ray systems, suit filed June 27, 1922, U. S. Court of Claims, Doc. B-129, *H. F. Waite v. United States.*

1,374,402. (See 1,226,526.)

1,402,168. (See Re. 13,617.)

1,411,217. (See Re. 13,617.)

1,413,467, R. A. Gaertner, Power net rollers, suit filed June 21, 1922, U. S. D. C., S. D. Calif., *R. A. Gaertner v. P. De Maria and F. Musich.*

Re. 13,617 (original 1,063,268), P. A. Koehring, Concrete distributors; 1,141,470, 1,223,185, 1,402,168, 1,411,217, E. H. Lichtenberg, Concrete mixers, etc., suit filed June 2, 1922, U. S. D. C., E. D. Wis., Doc. 1238, C. D., *Koehring Company v. The T. L. Smith Company.*

Re. 13,848 (original 1,053,300). (See 1,116,398.)

Re. 14,733 (original 1,247,613), J. L. Axen, Electric meter, suit filed May 3, 1922, U. S. D. C., N. H., Doc. 115 Eq., *National Gauge & Equipment Co. v. Beede Electrical Instruments Co., Frank E. Beede.*

Design 55,511, G. F. Gillespie, Design for dolls, suit filed May 31, 1922, U. S. D. C., S. D. Calif., Doc. F 123, *M. M. Gillespie. Admstr. v. E. Demijohn.*

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 21, 1922.

Leslie & Welsh, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Flora W. Pinkus, of 93 Third Avenue, New York, for registration of a trade-mark and trade-mark registered November 6, 1894, No. 25,463, to Leslie & Welsh, 297 Main Street, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said Leslie & Welsh at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Leslie & Welsh, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 26, 1922.

Paragon Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Pabst Corporation, Milwaukee, Wis., the Decatur Brewing Co., 604 Cantrell Street, Decatur, Ill., and the Pabst Brewing Company, 917 Chestnut Street, Milwaukee, Wis., for registrations of trade-marks and trade-mark registered March 5, 1907, No. 61,117, to the Paragon Malt Extract Co., 3553 Third Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to the said Paragon Malt Extract Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paragon Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The Rhubarb Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The William S. Merrell Company, of Fifth and Pike Streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 2, 1914, No. 97,440, to The Rhubarb Company, of 1151 Market Street, Wheeling, W. Va., and a notice of such declaration sent by registered mail to said The Rhubarb Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Rhubarb Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

Andrew H. Hanford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Eureka Metal Polish Co. (Inc.), of 1638 North Fairfield Avenue, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,627, to Andrew H. Hanford, of 30 Burling Slip, New York, N. Y., and a notice of such declaration sent by registered mail to said Andrew H. Hanford at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Andrew H. Hanford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

George Schneibel, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Don F. Lauro, of 289 Washington Street, New York, N. Y., for registration of a trade-mark and trade-mark registered September 17, 1901, No. 37,077, to George Schneibel, of 748 South High Street, Columbus, Ohio, and a notice of such declaration sent by registered mail to said George Schneibel at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Schneibel, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Disclaimers.

835,120.—*Henry Livingstone Sulman, Hugh Fitzalis Kirkpatrick-Picard, and John Ballot, London, England.* ORE CONCENTRATION. Patent dated November 6, 1906. Disclaimer filed June 27, 1922, by the assignee, *Minerals Separation North American Corporation.*

"Your petitioner therefore for the purpose of assuring disclaimer of those parts of the thing patented which your petitioner does not choose to claim or hold by virtue of said Letters Patent, if such parts have not been already fully disclaimed, does hereby disclaim, as of March

28, 1917, as well as of to-day, from claims 9, 10, and 11 of said Letters Patent No. 835,120 any process of concentrating powdered ores excepting where the results obtained are the results obtained by the use of oil in a quantity amounting to a fraction of one per cent on the ore."

882,533.—*John M. Phillips and Robert F. Phillips, Car-rick, Pa.* RUNNING GEAR FOR MINE CARS. Patent dated March 17, 1908. Disclaimer filed May 15, 1922, by the assignee, *The Phillips Mine & Mill Supply Company.*

Hereby disclaims from claim 2—

"Any running gear for mine cars having a wheel which does not have an axle cap, an enlarged bearing-forming bore extending through the hub and terminating at the cap, a bore of diminished diameter extending through the cap only, the shoulder between the two bores forming a thrust-bearing, a second thrust-bearing at the inner end of the hub, and an oil chamber in the hub terminating short of the outer end of the enlarged bearing-forming bore ;

"Thereby limiting claim 2 to a running gear for mine cars comprising a wheel which has an axle cap, an enlarged bearing-forming bore extending through the hub and terminating at the cap, a bore of diminished diameter extending through the cap only, the shoulder between the two bores forming a thrust-bearing, a second thrust-bearing at the inner end of the hub, and an oil chamber in the hub terminating short of the outer end of the enlarged bearing-forming bore."

[Republished to correct error in Official Gazette of May 30, 1922.]

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 300—No. 3.

TUESDAY, JULY 18, 1922.

Price—\$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, \$5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JULY 18, 1922.....	413
IMPORTANT INFORMATION.....	413
DRAWINGS.....	413
PATENT OFFICE PUBLICATIONS.....	413
NOTICE—ATTORNEY'S ADDRESS.....	413
APPLICATIONS UNDER EXAMINATION.....	414
PATENTS GRANTED.....	415
REISSUES.....	556
DESIGNS.....	557
TRADE-MARKS PUBLISHED (270 APPLICATIONS).....	565
TRADE-MARK REGISTRATIONS GRANTED.....	605
LABELS.....	613
PRINTS.....	614
DECISIONS OF THE U. S. COURTS—	
In re Schollenberger.....	615
Condron Co. v. Corrugated Bar Co.....	616
PATENT SUITS.....	617
INTERFERENCE NOTICES.....	618
CHANGES IN CLASSIFICATION.....	619
INTERFERENCE DEFINED.....	620

Drawings.

RULE 38.

38. When there are drawings, the description will refer to the different views by figures and to the different parts by letters or numerals, (preferably the latter.)

RULE 52—EXTRACT.

(f) The different views should be consecutively numbered. Letters and figures of reference must be carefully formed. They should, if possible, measure at least one-eighth of an inch in height, so that they may bear reduction to one twenty-fourth of an inch; and they may be much larger when there is sufficient room. They must be so placed in the close and complex parts of drawings as not to interfere with a thorough comprehension of the same, and therefore should rarely cross or mingle with the lines. When necessarily grouped around a certain part, they should be placed at a little distance, where there is available space, and connected by short lines with the parts to which they refer and by short broken lines when the number or letters refers to parts shown in dotted lines. They should not be placed upon shaded surfaces, and when it is difficult to avoid this, a blank space must be left in the shading where the letter occurs, so that it shall appear perfectly distinct and separate from the work. If the same part of an invention appear in more than one view of the drawing it must always be represented by the same character, and the same character must never be used to designate different parts.

It is suggested that numerals or letters be used without exponents.

Issue of July 18, 1922.

Patents.....	698—No. 1,422,809 to No. 1,423,506, inclusive.
Designs.....	46—No. 61,220 to No. 61,265, inclusive.
Trade-Marks.....	146—No. 156,828 to No. 156,973, inclusive.
Labels.....	32—No. 24,711 to No. 24,742, inclusive.
Prints.....	13—No. 6,210 to No. 6,222, inclusive.
Reissues.....	6—No. 15,411 to No. 15,416, inclusive.

Total..... 941

Important Information.

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)

Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)

Original application. (Facsimile petition, specification, oath, and drawings at present time.)

Specification as originally filed. (As received in Office.)

Specification as amended. (With amendments entered.)

Specification as allowed. (As passed by the Examiner for issue.)

Original specification. (Facsimile at present time.)

File-wrapper. (File-wrapper only.)

File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)

File-wrapper, contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)

Assignment. (Give the liber and page of the record as well as the name of the inventor.)

Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)

Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Patent Office Publications.

The stock of the following publications is held for sale by the Patent Office, and orders for same should be addressed to the Commissioner of Patents.

Weekly Index—Annual subscription.....	\$1.00
Commissioner's Decisions.....	
Weekly edition—Annual subscription.....	2.00
Single numbers.....	.05
Trade-Mark Section of OFFICIAL GAZETTE.....	
Weekly edition—Annual subscription.....	2.50
Single numbers.....	.05
Manual of Classification of the German Patent Office, (translated,) paper cover.....	1.00
Index to German Classification.....	1.00
Definitions of Revised Classes and Subclasses, edition of 1912, (Bulletins 1 to 27, inclusive).....	.50
Bulletins, excepting Nos. 28, 29, and 30, (now out of print,) published since 1912, each.....	.10
Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly held for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should not be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.	
Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.	

Notice—Attorney's Address.

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

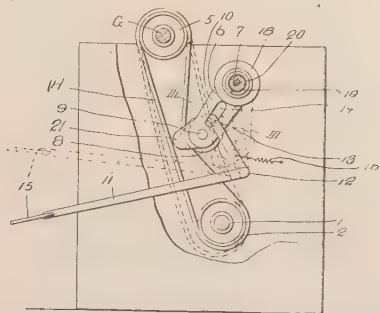
Condition of Applications Under Examination at Close of Business July 8, 1922.

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
	(Total number of applications waiting action, excluding Trade-Mark division, 67,696; Trade-Mark division, 8,451. Oldest new case, Mar. 31; oldest amended, Apr. 1, 1921. The dates given are 1921 except where * indicates 1922.)			
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 1	*Jan. 12	919
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Cane; Tobacco; Trees, Plants, and Flowers.	July 23	July 5	1,974
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Sept. 17	Aug. 19	953
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 22	*May 1	1,441
167	5. MACNAB, J. F., Bookmaking; Books, Strips, and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Oct. 6	1,116
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic, and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Sept. 29	*Feb. 11	1,302
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Oct. 1	Nov. 7	2,394
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet-Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 28	*May 6	907
221	9. TILYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid Current; Pumps.	*Jan. 2	*May 20	1,121
235	10. MITCHELL, T. H., Land Vehicles; Land Vehicles, Animal Draft Appliances; Land Vehicles—Bodies and Tops; Land Vehicles—Dumping; Land Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 27	*Apr. 4	1,108
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 8	*Feb. 23	672
322	12. PIERCE, F. F., Machine Elements.	Dec. 1	*Mar. 4	1,260
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 20	*Mar. 11	1,720
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire Working.	Aug. 9	*Mar. 16	1,193
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 29	Aug. 31	2,014
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	July 8	July 14	2,361
307	17. RAFTER, G. S., Coating, Label Pasting, and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 20	*Jan. 13	1,360
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expandable-Chamber Type; Power Plants; Speed-Responsive Devices; Steam and Vacuum Pumps.	June 1	May 20	2,432
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Rheostats and Humidostats.	June 6	Nov. 19	1,312
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 1	*Jan. 12	1,580
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Textiles, Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Sept. 3	Dec. 29	920
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Reproducing; Time-Controlling Mechanism.	Nov. 1	*Mar. 21	472
217	23. GROESBECK, W. D., Acoustics; Coin Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	June 3	Nov. 5	823
144	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines.	Sept. 17	*Feb. 9	1,215
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 5	*Apr. 5	434
105	26. HODGES, J. S., Electricity; Generation; Motive Power; Prime-Mover Dynamo Plants.	Sept. 28	Dec. 31	1,057
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 10	Sept. 12	2,008
225	28. BENSON, A. R., Internal-Combustion Engines.	Oct. 28	Sept. 12	1,684
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool-Handle Fastenings; Wheelwright Machines; Wood Sawing; Wood Turning; Woodworking; Woodworking Tools.	Oct. 8	*May 2	647
152	30. SULLIVAN, M. R., Illuminating Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-writing Machines.	*Jan. 3	*Apr. 6	1,487
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 21	Sept. 6	2,142
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Sept. 1	*Mar. 6	964
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 21	*Feb. 1	915
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Dispatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track Sanders; Vehicle Fenders.	*Mar. 21	*Mar. 21	551
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 4	*Apr. 25	806
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 6	*Jan. 16	1,769
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Aug. 15	Aug. 18	1,882
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping, and Vermin Destroying; Mining, Quarrying, and Ice Harvesting; Stationery; Stoneworking; Wells.	Oct. 22	Oct. 20	1,759
220	39. COWLES, A. W., Fluid-Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 17	June 4	2,315
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 11	Oct. 6	2,905
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	*Feb. 9	*Feb. 28	765
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	July 25	June 27	1,974
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 1	Oct. 4	1,890
253	44. SHAFFER, C. H., Air Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 14	*Apr. 1	524
379	45. GILES, A. H., Journal Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Dec. 13	*Feb. 3	1,243
332	46. WOLCOTT, C. L., Curtains, Shades, and Screens; Educational Appliances; Fire Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 17	Dec. 5	1,289
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid-Pressure Brake and Analogous Systems.	Sept. 14	*Jan. 30	1,267
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications.	Mar. 31	Apr. 1	2,847
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks.	Sept. 12	*Jan. 30	5,810
	Designs.	Nov. 28	*Jan. 23	2,518
	Labels and Prints.	June 15	*July 3	123

PATENTS

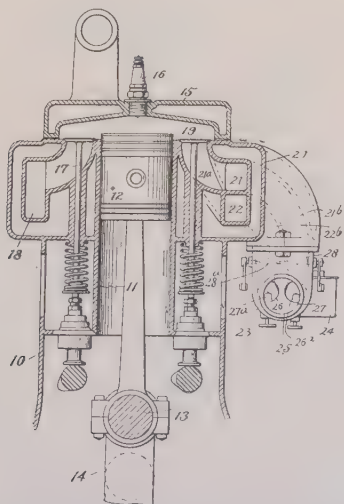
GRANTED JULY 18, 1922.

1,422,809. POWER CONTROL FOR DRIVE MECHANISM. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed May 28, 1919. Serial No. 300,305. 1 Claim. (Cl. 64—5.)



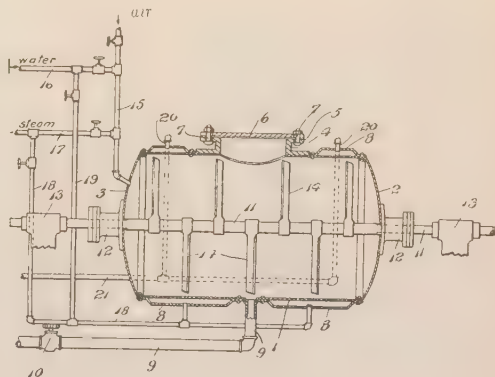
In combination, two smooth-faced pulleys spaced apart, a belt extending between said pulleys adapted to drive one of said pulleys from the other, said belt being normally loose and being arranged so that one lead thereof extends in an approximately vertical direction between said pulleys, a tightener for said belt comprising a body part having two arms projecting therefrom, means whereby said body is pivotally supported so that said arms hang by gravity below said body, an anti-friction roller pivotally supported between said arms at the lower ends thereof adapted to swing with said arms into and out of tightening position against said mentioned lead of the belt, an operating member engaging one of said arms operable to swing said arms into and out of belt tightening position, a spring for maintaining said operating member and said arms normally in non-tightening position, and projections formed upon said arms extending at an angle therefrom into positions for overlapping opposite edge portions of the belt, the arrangement being such that said projections will overlap the edges of the belt and thus serve to guide the belt with respect to said two pulleys at all times whether said arms be in belt tightening or non-tightening position.

1,422,810. INTERNAL-COMBUSTION ENGINE. WALTER D. APPEL, Cleveland Heights, Ohio. Filed Dec. 29, 1916. Serial No. 139,457. 11 Claims. (Cl. 123—59.)



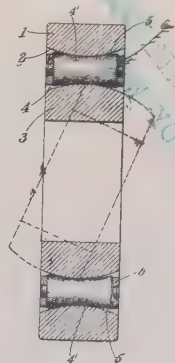
2. An internal combustion engine having two or more intake valves per cylinder, and means for supplying fuel to the cylinder or cylinders through part or all the valves.

1,422,811. GLUE MIXING AND PRESERVING APPARATUS. EDWARD B. APPELATE and WILLIAM H. YEOMANS, Grand Rapids, Mich., assignors to Imperial Furniture Company, Grand Rapids, Mich., a Corporation of Michigan. Filed May 18, 1920. Serial No. 382,239. 2 Claims. (Cl. 257—84.)



2. In combination, a tank provided with an entrance opening in the upper side thereof, means for hermetically sealing said opening, an outlet pipe leading from the lower part of the tank, a shaft extending lengthwise of the tank and mounted for rotation, a plurality of stirring paddles attached to the shaft within the tank, a pipe leading into the upper portion of the tank and adapted to carry compressed air into the tank, water and steam pipes connected with the air pipe, a jacket surrounding the tank, a pipe leading from the steam pipe into the space between the jacket and tank, a pipe connecting the water pipe with said last mentioned steam carrying pipe, and valves in the various pipes for controlling the passage of air, water and steam, substantially as described.

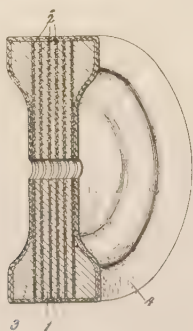
1,422,812. BEARING. PERCY A. E. ARMSTRONG, Watervliet, N. Y. Filed June 13, 1919. Serial No. 303,887. 1 Claim. (Cl. 64—62.)



A bearing comprising an outer race member having a transversely curved inwardly convexed bearing surface, an inner race member having a spherical bearing surface, and a series of rollers between said race members, said rollers having their axes parallel to one another and having their bearing surfaces longitudinally concaved on a curvature larger than the curvatures of the bearing surfaces of the race members and making substantially point contact with said bearing surfaces of the race members

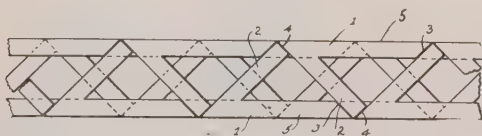
when not under load, and all of said rollers being completely symmetrical in form at and to a substantial distance on each side of the portion thereof of smallest diameter.

1,422,813. LAMINATED COMPOSITE WHEEL. HARRY N. ATWOOD and GEORGE B. BAINS, 3d, Reading, Pa. Filed Dec. 24, 1920, Serial No. 432,939. Renewed Nov. 16, 1921. Serial No. 515,695. 10 Claims. (Cl. 301—63.)



1. The method of producing a composite laminated structure of complex contour which comprises providing a flat body surface with an outstanding portion substantially defining the contour desired, applying to the built-up surface, a ply of vulcanizable material, and subjecting the assemblage to a molding operation attended by heat and pressure whereby to effect union of the ply to the built-up surface and cause the same to conform to the contour of the said surface.

1,422,814. BUILDING BLOCK AND WALL CONSTRUCTION. WALTER C. BARTELT, Thiensville, Wis. Filed Sept. 14, 1921. Serial No. 500,535. 12 Claims. (Cl. 72—38.)

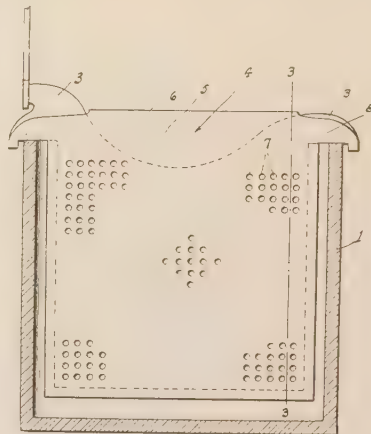


1. A building unit comprising two integral members, the marginal edges of which conform in outline to the sides of an isosceles right-angle triangle.

1,422,815. SEPARATOR FOR STORAGE-BATTERY PLATES. GEORGE E. BECK, Cleveland, Ohio. Filed Dec. 17, 1920. Serial No. 431,420. 5 Claims. (Cl. 204—29.)

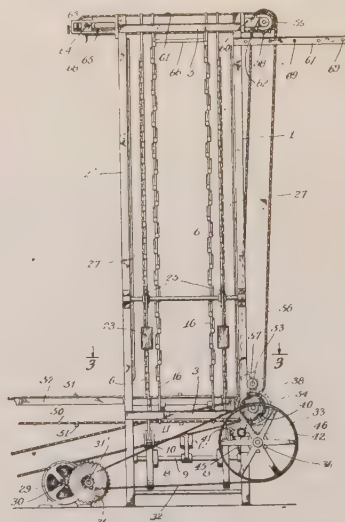
5. The combination with a battery jar, and a battery plate suspended on the upper edges of the jar, of a separator of non-conductive material and consisting of perforated side members adapted to fit within the jar at the opposite sides of the battery plate and extend over the entire side area of the battery plate, a longitudinal arched portion connecting the upper ends of the side members and

bridging the battery plate, and lugs projecting from the upper corners of the side members to engage over the



edges of the battery jar and suspend the separator on the jar independently of the battery plate.

1,422,816. ELEVATING DEVICE. FREDERICK BEERS, New Rochelle, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1920. Serial No. 406,446. 6 Claims. (Cl. 34—11.)

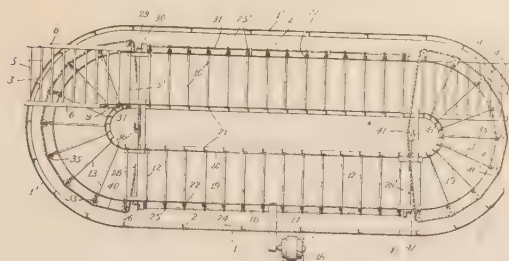


2. In an elevating device, the combination of vertical series of supporting members, lifting means adapted and positioned to rise from and descend to normal positions and, in rising, to lift articles on any of said supporting members to positions in which they are supported by the supporting members next above, rotary means so arranged that one complete revolution thereof will raise and lower said lifting means, a continuously rotating member, and means for periodically connecting said last named member to said rotary means to impart one revolution thereto and then disconnecting the same.

1,422,817. DRIER OR OVEN. FREDERICK BEERS, New Rochelle, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1920. Serial No. 406,449. 5 Claims. (Cl. 198—127.)

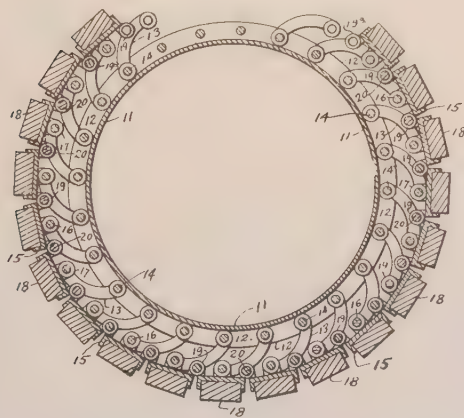
1. In an oven, the combination of an enclosing casing, and means for progressing articles therethrough in a

looped, downwardly slanting path, comprising rollers arranged to extend across such path and means for rotating said rollers all in such direction that articles placed thereon will be carried forwardly over the same by fric-



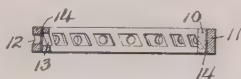
tional contact therewith, said last named means comprising a rotating shaft, vertical shafts rotated therefrom, and connections for rotating a plurality of said rollers from each vertical shaft.

1,422,818. RIM AND TIRE FOR AUTOMOBILE AND OTHER WHEELS. ISRAEL BENJAMINS, Brooklyn, N. Y. Filed June 2, 1921. Serial No. 474,566. 12 Claims. (Cl. 152—8.)



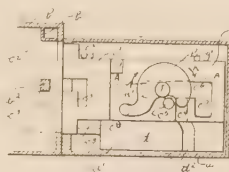
1. In a rim and tire for automobile and other wheels a series of wearing blocks, saddles adapted to hold said blocks, said saddles being connected to each other to form an endless chain, a rim, a series of levers pivotally connected at their outer ends to said saddles and at their inner ends to said rim and springs adapted to act on said levers, thereby acting on said saddles and wearing blocks.

1,422,819. FINGER RING. ERNEST C. BLAICHER, Irvington, N. J., assignor to Interstate Smelting and Refining Co., Inc., Newark, N. J. Filed Feb. 23, 1922. Serial No. 538,447. 1 Claim. (Cl. 63—15.)



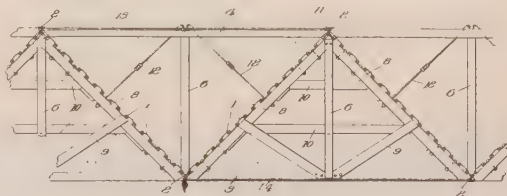
A finger ring comprising an outer perforated ring member, an inner ring member secured snugly within the outer member and having perforations larger in area than the perforations in the outer member and disposed so as to be substantially in register with the perforations in the outer member.

1,422,820. LOCK. ALEXANDER BLOCK, New York, N. Y. Filed Sept. 9, 1920. Serial No. 409,067. 47 Claims. (Cl. 70—46.)



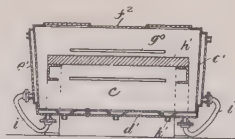
1. In a lock, the combination of an actuator and a hooked bolt connected together for longitudinal movement relatively to each other, means for moving said hooked bolt and for subsequently causing said actuator to move in a direction for projecting the hooked bolt into engaging position, and to then move said actuator into its extreme operative position and into supporting relation with reference to said hooked bolt.

1,422,821. SHEET-PILING WALL CONSTRUCTION. CHARLES S. BOARDMAN and CLOUD CLIFFORD CONKLING, Buffalo, N. Y.; Lucile C. Conkling executrix of the will of said Cloud Clifford Conkling, deceased, assignors to Lackawanna Steel Company, Lackawanna, N. Y., a Corporation of New York. Filed July 7, 1915, Serial No. 38,609. Renewed Nov. 26, 1919. Serial No. 340,800. 4 Claims. (Cl. 61—39.)



1. A wall of sheet piling composed of triangular units, each formed of wall sections of interlocking sheet piling arranged in angular relation and sustaining members connected to the sections to form independently sustained units and to connect the units and therewith to form interacting trusses and the piling of said sections being interlocked in continuous saw tooth arrangement to form a continuous wall and to connect the units substantially as described.

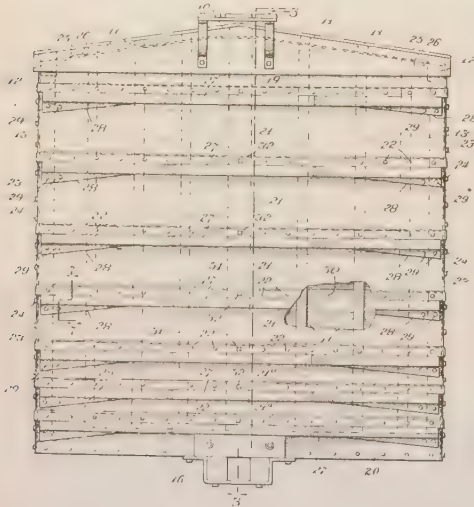
1,422,822. MACHINE FOR APPLYING SOLUTIONS OF RUBBER OR THE LIKE TO FABRICS. ALBERT BOECLER, Malmö, Sweden, assignor to Benzine Condensation Co., Inc., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 409,969. 4 Claims. (Cl. 34—48.)



3. A machine for applying to fabric webs or impregnating fabric webs with solutions of rubber or similar material, comprising a working table and a casing, provided with cooling means on its lower part, the cooling means being so constructed and arranged that the rate of flow of the cooling medium through different portions of the casing will not be uniform whereby the lateral walls of the casing will be cooled at different temperatures, the

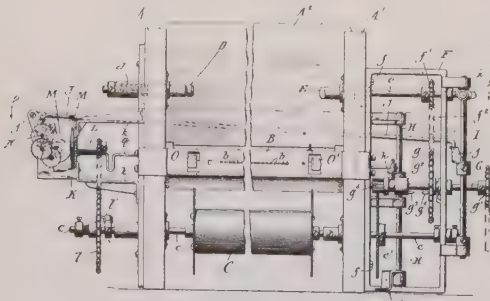
cooling part of the casing constructed in three sections, two of these forming the lateral walls and one the bottom, each of which being constructed hollow or double independent from one another, and pipes to connect the lower parts of the side walls with the hollow space of the bottom, outlets on the upper part of the side walls, and an inlet pipe on the bottom arranged to one side of the centre line.

1,422,823. REENFORCED CAR END-WALL STRUCTURE. CHARLES D. BONSALE, Parnassus, Pa., assignor to Walter P. Murphy, New York, N. Y. Filed Nov. 14, 1919. Serial No. 338,075. 34 Claims. (Cl. 105-410.)



4. A sheet metal end panel for a railway car comprising a metal sheet formed with an out-pressed rigidifying rib which for a portion of its length is in the form of a web having a free edge and adjacent an end is channel-formed.

1,422,824. TRACKING DEVICE FOR PLAYER PIANOS. GEORGE P. BRAND, New York, N. Y. Filed Oct. 25, 1917. Serial No. 198,468. 69' Claims. (Cl. 84-137.)

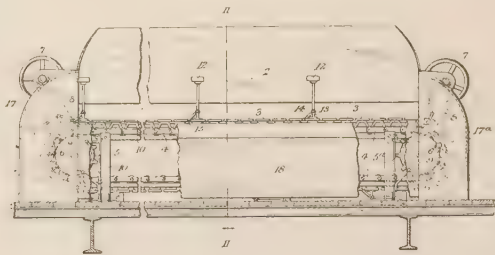


1. The method of automatically maintaining registration between the perforations of a music sheet and the air ducts of a tracker bar, which consists in mechanically varying pressure to preserve alinement without lateral deviation of the music sheet from its correct position.

1,422,825. THEATER SEAT. RAYMOND BROOKS, Benson Mines, N. Y. Filed Mar. 11, 1920. Serial No. 364,948. 5 Claims. (Cl. 104-25.)

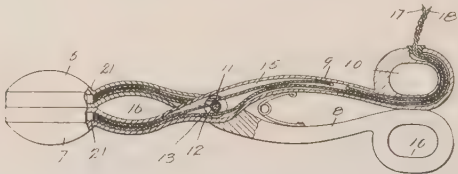
2. In seats for theaters and the like, a plurality of seating surfaces movable in a direction transverse to that in which the seats face, each seating surface being mov-

able independently of the other seating surfaces, each seating surface being mounted on an endless conveyor and being movable when in operative position away from an



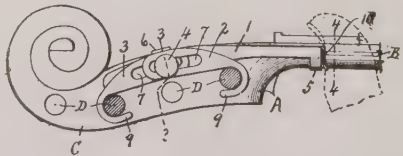
entrance aisle toward an exit aisle, and when in inoperative position away from an exit aisle toward an entrance aisle.

1,422,826. ELECTRICALLY-HEATED TONGS. FRANK O. BROWN, St. Louis, Mo. Filed Oct. 24, 1921. Serial No. 509,787. 4 Claims. (Cl. 219-21.)



1. An electrically heated tong comprising a pair of hollow jaws, hollow handles formed integral with said jaws, a heating unit located in each of said jaws, electric conductors located in the hollow handles and connected to the heating units, said conductors extending through and out of one of said handles, an electric switch located in one of said handles for interrupting the electric current through said conductors, and means for removing said heating units.

1,422,827. ATTACHMENT FOR VIOLINS AND ANALOGOUS STRING INSTRUMENTS. WILLIAM I. BROWN, Syracuse, N. Y. Filed Jan. 27, 1922. Serial No. 532,092. 2 Claims. (Cl. 84-281.)

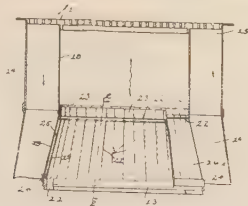


1. An attachment for violins and analogous stringed instruments comprising a base-plate having a thumb rest, and means for clamping the base-plate to the head of the instrument, and including relatively adjustable hook-shaped members for interlocking engagement with the tuning pins of said instrument.

1,422,828. PIPELESS FURNACE. CHARLES M. BULLER, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 12, 1919. Serial No. 337,553. 5 Claims. (Cl. 126-99.)

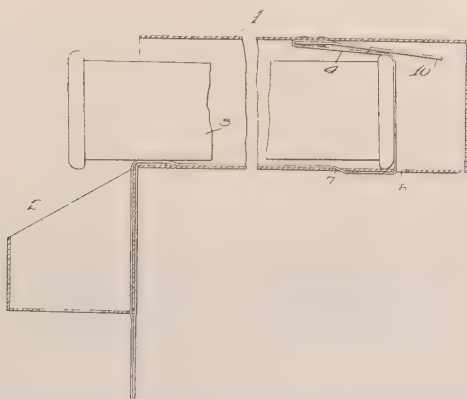
1. A section for a heating furnace consisting of a tapered tubular casing having longitudinally extending

reinforcing plaits in spaced relation, the plaits at the end of the casing of less size being of greater width than



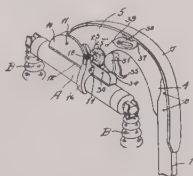
at the other or larger end of the casing, said casing having a medial circumferentially extending rib and an end flange.

1,422,829. CONTAINER FOR MUSIC ROLLS AND THE LIKE. CHARLES S. BURTON, Oak Park, Ill. Filed Feb. 27, 1919, Serial No. 279,647. Renewed Dec. 5, 1921. Serial No. 520,159. 4 Claims. (Cl. 206—52.)



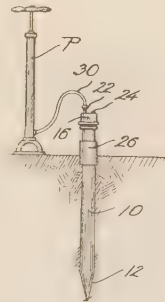
3. A container for a longitudinally-rigid article consisting of a tubular box having one open end; a telescoping closure for that end; a catch in the box for engaging the contained article when the latter is fully thrust into the box; a strap secured to the box and extending from its securement back from the open end for passing about the inner end of the contained article, and thence forward to the open end and in its course masking the engaging end of the catch, and at the forward end connected with the telescoping closure and accessible exteriorly thereof for simultaneously drawing the strap taut around the inner end of the article and between the same and the masked catch and withdrawing the telescoping closure.

1,422,830. FUSE EMPLACING AND REMOVING IMPLEMENT. HAZEL B. BUSH, Bedford, Ohio, assignor to The Bush Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 24, 1919, Serial No. 232,915. Renewed Dec. 14, 1921. Serial No. 522,440. 19 Claims. (Cl. 81—3.)



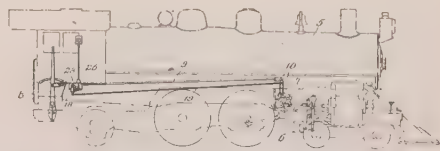
1. In an implement of the class set forth, the combination of fuse gripping jaws, and an adjustable latch for maintaining the jaws in closed condition with varying degrees of positiveness.

1,422,831. VERMIN EXTERMINATOR. WILLIAM WYATT CAMP, Denver, Colo. Filed Aug. 9, 1920. Serial No. 402,169. 1 Claim. (Cl. 43—129.)



A vermin exterminator comprising a perforated member adapted to be driven into the ground, means to seal the member above the surface, said means including an adjustable sleeve to cover and uncover varying numbers of the upper perforations as desired, and means to admit a gas under pressure into the tube.

1,422,832. VALVE CUT-OFF AND SPEED INDICATOR FOR LOCOMOTIVES. VIRGINIUS Z. CARACRISTI, Bronxville, N. Y., and ANTHONY F. WALLBILICH, Newark, N. J. Filed Sept. 30, 1920. Serial No. 413,765. 7 Claims. (Cl. 234—1.)

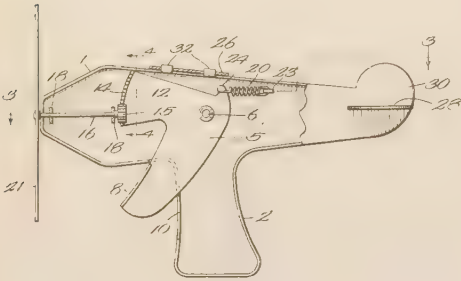


1. In combination with a speed indicator for vehicles and actuating means for the propulsion medium-controlling valve of the vehicle, said valve being movable in opposite directions from a neutral position for the forward and reverse movements of the vehicle; a second indicative means correlated with said speed indicator, means operatively connecting said second indicative means with the valve actuating means to operate the said second indicative means, upon a movement of the valve in one direction from its neutral position to propel the vehicle forwardly, to an extent determined by the speed indicator, whereby the valve is correctly positioned for the propulsion of the vehicle at a desired speed, said connecting means permitting of the movement of said valve in a reverse direction from its neutral position without effecting the operation of said indicative means.

1,422,833. TOY. JOHN W. CARLSON, Chicago, Ill., assignor to Chicago Novelty Mfg. Co., Chicago, Ill., a partnership composed of John W. Carlson, David Seaborn, and Conrad Johnson. Filed Apr. 20, 1921. Serial No. 463,088. 6 Claims. (Cl. 46—14.)

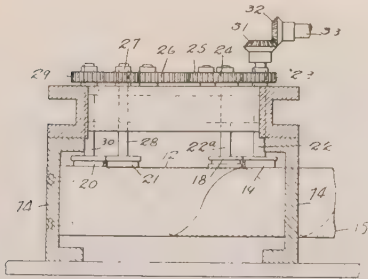
1. A toy having a body with a hand grip approximating that of a pistol, and a revolving blade approximating the propeller of an airplane, an actuator being adapted to and resembling a trigger, said actuator being adapted to be manually operated and pivoted to the body so as to oscillate in a plane passing through the axis of the

propeller, and a ratchet device operatively connecting the trigger and the propeller for rotating the latter when the



trigger is oscillated, said ratchet device constituting a one-way transmission whereby the oscillation of the trigger drives the propeller always in the same direction.

1,422,834. APPARATUS FOR MANUFACTURING PIPE FRANK W. COLBY, Chicago, Ill., assignor to The Kansas City Spiral Pipe Company, a Corporation. Filed Jan. 19, 1916, Serial No. 72,949. Renewed Dec. 12, 1921. Serial No. 521,921. 14 Claims. (Cl. 113—35.)

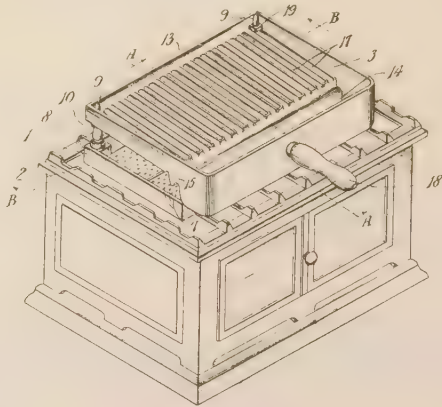


1. An apparatus for making spiral pipe from a single strip of material, comprising a series of shaping rollers for bending the edges of the strip material so that each edge has two parallel overlapping portions at an angle to the main body of the strip, a mandrel at an angle to said strip, about which the strip is wrapped, into spiral form so that the parallel overlapping portions of one edge of the strip fit in between the parallel overlapping portions of the other edge of the strip, and opposed compressing rollers for compressing said parallel portions of the bent edges toward each other to clamp them together.

1,422,835. KITCHEN UTENSIL FOR BROILING AND TOASTING FOOD. ALICE CONDY, Ashfield, near Sydney, New South Wales, Australia, assignor to John Edward Bolger, Sydney, New South Wales, Australia. Filed Mar. 25, 1921. Serial No. 455,431. 2 Claims. (Cl. 53—5.)

1. A kitchen utensil comprising an open base frame adapted to be supported over a fuel burner, a sheet of heat conducting and heat radiating material mounted in said frame, said sheet having regularly spaced orifices, said orifices being countersunk on the underside and

burred slightly on the upper side, a broiler device having grooved grid-bars, and a common catchment trough and



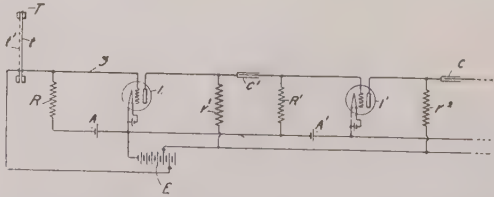
means for the attachment of said broiler device to said base frame.

1,422,836. RAILWAY SWITCH. JAMES D. COOPER, Toronto, Ontario, Canada. Filed Dec. 3, 1919. Serial No. 342,164. 5 Claims. (Cl. 246—327.)



1. In a railway switch mechanism, the combination with the switch and a vehicle, of a transversely slidable member operatively connected with the switch and having a downwardly projecting pin, a longitudinally slidable member having a pair of interconnected guide-ways engaging the pin of said switch operating member and adapted to move said switch operating member in the reverse direction according to its direction of movement, a bar pivotally connected to said longitudinally movable member, a casing having vertical side walls formed with guide-ways therein, said guide-ways being separated by a plate member having one end closing the lower guide-way and adapted to spring upwardly, laterally projecting pins on said bar operating said guide-ways, a shoe carried by the vehicle adapted to be lowered into contact with said bar, means for locking the bar in the forward position, means for returning the bar, and means actuated by the shoe for releasing said locking means.

1,422,837. CONNECTING TRANSMITTERS TO VACUUM TUBE AMPLIFIERS. IRVING B. CRANDALL, Nahant, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 13, 1917. Serial No. 196,389. 11 Claims. (Cl. 179—171.)

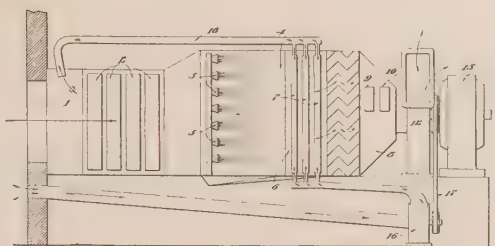


2. In combination, a transmitter for changing sound waves into waves of electrical current, an amplifier for said current waves, and a common source of electrical energy arranged to energize said transmitter and to furnish operating current for said amplifier.

1,422,838. PROCESS OF CHLORINATING GASEOUS HYDROCARBONS AND RECOVERING PRODUCTS THEREFROM. GEORGE O. CURME, Jr., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation, a Corporation of New York. Filed July 7, 1920. Serial No. 394,571. 2 Claims. (Cl. 23—24.)

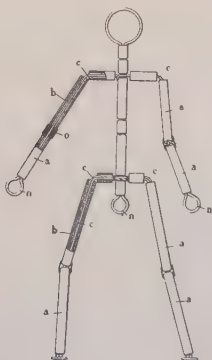
1. Process of preparing and recovering halogen substitution-products from gaseous hydrocarbons, comprising mixing the hydrocarbon in excess with the gaseous halogen; effecting combination of the halogen with liberation of the anhydrous halogen acid; separating the reaction products of higher boiling point than the hydrocarbon from the resulting gas mixture by anhydrous liquefaction; and returning the residual gaseous hydrocarbon to the operating cycle.

1,422,839. METHOD OF HUMIDIFYING AIR. PHILIPPE DE CLAMECY, Boston, Mass., assignor to B. F. Sturtevant Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 3, 1919. Serial No. 321,392. 1 Claim. (Cl. 183—120.)



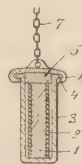
The method of humidifying air which consists in heating the air to a temperature in excess of the temperature at which it is to be delivered, spraying water into the heated air, projecting the heated air against a separating surface to precipitate a portion of the water held in suspension by the air, maintaining the separating surface cool by means of a current of air which first cools the separating surface and then becomes a part of the supply of air to be heated, and allowing the remaining portion of the water held in suspension by the air and not precipitated on the separating surface to be vaporized to give the desired humidity at the desired temperature.

1,422,840. JOINTED LAY FIGURE, MODEL, OR DOLL. CONSUELO DE GRASSE, née FOULD, Paris, France. Filed Feb. 24, 1920. Serial No. 360,758. 5 Claims. (Cl. 46—40.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



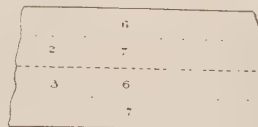
1. In a doll or lay figure, a skeleton consisting of flexible wire and rigid tube sections, all the latter being threaded on the same wire and having their adjacent ends adapted to make contact with each other.

1,422,841. LUMINOUS ARTICLE AND METHOD OF MAKING THE SAME. WILLIAM H. DEY, Jersey City, N. J., assignor to United States Radium Corporation, a Corporation of Delaware. Filed Nov. 16, 1920. Serial No. 424,379. 6 Claims. (Cl. 240—1.)



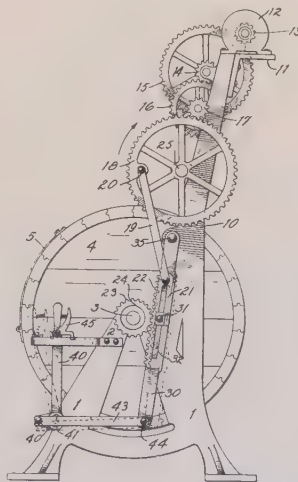
1. A luminous article, comprising a glass casing provided with a bore, and a glass rod the diameter of which is slightly less than the diameter of the bore, painted with luminous paint, located in the bore.

1,422,842. READING RIBBON IN SIGNALING MACHINES. WILFRID DOUGALL, Montreal, Quebec, Canada. Filed Mar. 13, 1920. Serial No. 365,648. 4 Claims. (Cl. 178—112.)



4. A reading ribbon comprising a length of sheet material in ribbon form divided longitudinally on an imaginary line in two equal parts and subdivided longitudinally into left and right hand divisions in each longitudinal half, the said longitudinal halves having perforations in transverse arrangement for left and right hands in groups or singly, these perforations continuing in successive lines along one longitudinal half and back by the other finishing at or about the starting point and completing a book roll.

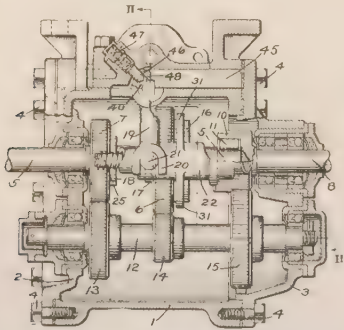
1,422,843. DRIVING MECHANISM FOR WASHING MACHINES. WALTER ERNI, Milwaukee, Wis. Filed June 25, 1917. Serial No. 176,743. 1 Claim. (Cl. 74—50.)



Driving mechanism for washing machines having an oscillatory drum, said driving mechanism comprising a pinion operatively connected with said drum, an oscil-

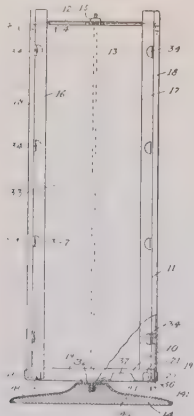
latory rack adapted to be thrown into and out of mesh with said pinion, a guide for said rack pivotally mounted to swing about a point above said pinion, means for reciprocating said rack, a bell crank lever linked to the lower end of said guide for moving said rack into and out of mesh with said pinion, said bell crank lever having a substantially vertically disposed manually operable arm, and means carried by said arm for positively locking said arm in either of its two extreme positions.

1,422,844. AUTOMATIC TRAIN-SPEED-CONTROL DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 12, 1920. Serial No. 380,856. Renewed Jan. 14, 1921. Serial No. 437,356. 23 Claims. (Cl. 246—19.)



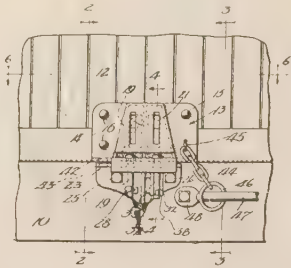
2. In a train speed control apparatus, the combination with a speed governor and a driving member operating at a speed relative to the speed of the train, of a change speed gear mechanism having different positions for varying the speed of the governor relative to the speed of the driving member and means including a removable staff for setting the speed gear mechanism to its different positions.

1,422,845. DISPLAY DEVICE. GEORGE M. FRANKS, St. Paul, Minn. Filed Mar. 2, 1921. Serial No. 449,183. 9 Claims. (Cl. 211—20.)



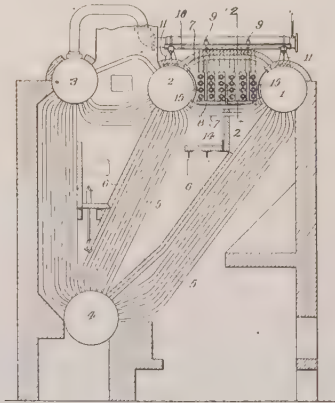
3. A display device comprising a lower frame member formed of a single piece of sheet iron, flanges turned upwardly from the body of said lower frame member along the edges thereof, ears pressed out of said up-turned flanges and uprights mounted on said lower frame member between said ears and flanges.

1,422,846. LOCK FOR SLIDING DOORS. JAMES C. FRITTS, Scranton, Pa. Filed Sept. 6, 1921. Serial No. 498,617. 8 Claims. (292—148.)



1. A lock for sliding doors comprising, in combination, a chambered casing having a bolt aperture in its face, a headed bolt loosely housed in the casing and adapted when withdrawn to have its forward end out of alignment with the aperture, a keeper having an outstanding apertured flange, the aperture being adapted to register with the casing aperture, and a key member for attachment to the free end of the bolt when advanced through the keeper.

1,422,847. SUPERHEATER. ERNEST H. FOSTER, Dongan Hills, N. Y., assignor to Power Specialty Company, New York, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,429. 5 Claims. (Cl. 122—478.)

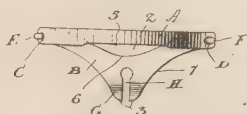


1. The combination in a steam boiler of the Stirling type as herein described where in a plurality of upper drums are connected by circulating tubes, of a superheater with transverse parallel vertical rows of tubes placed between the circulating tubes connecting the first and second upper drums, a beam mounted on and above said drums, a support for the superheater suspended therefrom and a vertical baffle which forces the furnace gases up and over the superheater tubes, said baffle extending up centrally between the transverse vertical rows of superheater tubes.

1,422,848. EXTRACTION OF POTASSIUM COMPOUNDS. WALTER GLAESER, Brooklyn, N. Y., assignor to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed June 7, 1918. Serial No. 238,768. 6 Claims. (Cl. 23—22.)

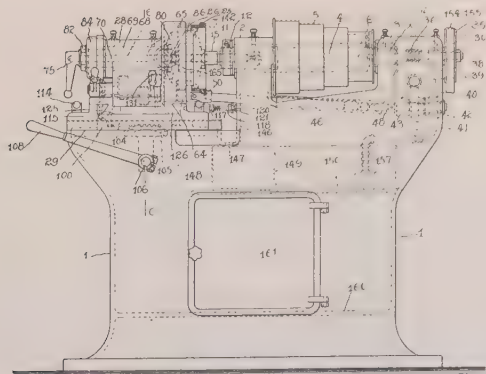
1. In a method of making hydrochloric acid, the steps which consist in heating calcium chloride with alunite in the presence of steam and then collecting the hydrochloric acid evolved.

1,422,849. TIE HOLDER. WILLIAM HARRY GRAINGER, Toronto, Ontario, Canada. Filed Apr. 14, 1921. Serial No. 461,224. 1 Claim. (Cl. 2—84.)



In a tie-holder, in combination a bow-shaped plate-like cross-bar provided with a concaved portion in its upper edge, and having each end projecting above said concaved portion; a tongue integrally formed with said bar, curved to conform to the bowed-shape of said cross-bar, and located substantially between said ends, and below said concaved portion and having a vertical slot opening through the lower end thereof, a bow-shaped plate-like cross-bar adapted to permit a neck-tie to be knotted thereon, and designed to rest in lateral contact with the ends of said first-mentioned cross-bar and relatively narrow so as to leave a space between the lower edge of said second-mentioned cross-bar and the edge of said concaved portion through which a certain portion of a tie will extend, and means whereby said bars are associated at their ends so as to permit of the separation thereof either for the substitution of a bar corresponding to said second-mentioned bar, or the removal of a tie mounted thereon.

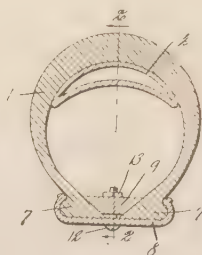
1,422,850. MILLING MACHINE. WALTER A. GRUENBERG and DORR MILLER, Detroit, Mich., assignors to The Miller Transmission Company, New York, N. Y., a Corporation of Maine. Filed Sept. 22, 1919. Serial No. 325,313. 17 Claims. (Cl. 90—13.7.)



1. In a machine of the character described, the combination of a supporting frame, a rotary cutting tool, driving means therefor, a work supporting table on the frame, a carrier plate fitted thereon and adjustable longitudinally with reference to the tool, said carrier plate being formed with a transverse guide-way, a work carriage fitted to said guide-way and capable of transverse adjustment therein, a gauge plate and coacting locking means associated with the carrier plate and carriage to determine the carriage adjustment therein, a work holder journaled in the carriage and slidable therein toward and from the tool, cam means associated with the work holder to effect the movement thereof toward and from the tool during the milling operation to define the contour of the finished sur-

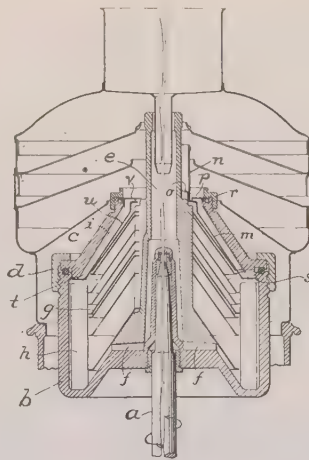
face and operating connections for the work holder connected to the driving means whereby the feed movement of the work holder is transmitted from the latter in definite ratio, said operating connections comprising a flexible shaft to accommodate for the adjustment of the work holder, substantially as described.

1,422,851. TIRE. WILLIAM R. HALFPENNY, Juniata, Pa. Filed July 8, 1921. Serial No. 483,293. 1 Claim. (Cl. 152—8.)



A vehicle tire comprising a casing having rim engaging means, and a spring ring crescent-shaped in cross section and having detachably connected interfitted ends, spring ring being seated in the casing against the tread portion thereof.

1,422,852. CENTRIFUGAL MACHINE. SELDEN H. HALL, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 6, 1921. Serial No. 490,376. 9 Claims. (Cl. 233—46.)

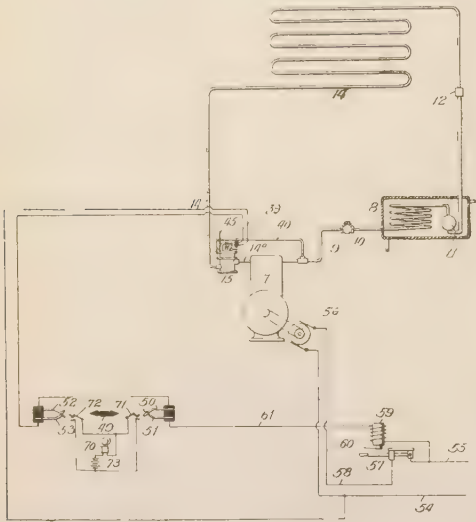


1. A convertible centrifuge comprising a bowl shell, a top disc above the separating space of the bowl, and alternative means one affording a free flow for heavy liquid from the peripheral part of said separating space to the space above the top disc and the other obstructing the flow to said space above the top disc.

1,422,853. CONTROLLING MECHANISM FOR REFRIGERATING APPARATUS. CHARLES C. HANSEN, Forest Park, Ill., assignor to Refrigerating Specialties Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1916. Serial No. 115,694. 3 Claims. (Cl. 230—24.)

1. In a refrigerating system, the combination of a compressor, a circulating line for the refrigerant connected to

the compressor, an automatic cut-off in the low pressure side of the line leading to the compressor, a signalling de-



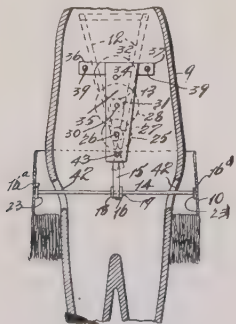
vice, and common means for operating first said signalling device and then said cut-off.

1,422,854. DOUBLE CUSHIONED SHOE HEEL OR LIFT. MAX G. HART, Elyria, Ohio. Filed Mar. 15, 1921. Serial No. 452,453. 4 Claims. (Cl. 36—35.)



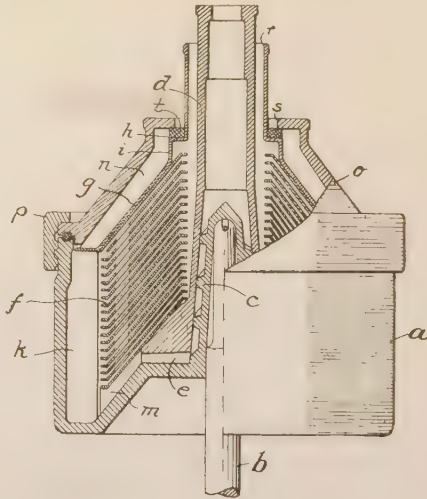
1. In a shoe heel or lift having integral upper and lower portions of different elasticity, the said portions being separated along the front edge of the heel with an interposed compensating chamber.

1,422,855. SHIMMY DOLL. SAMUEL HASKELL, Brooklyn, N. Y. Filed July 21, 1921. Serial No. 486,343. 5 Claims. (Cl. 46—40.)



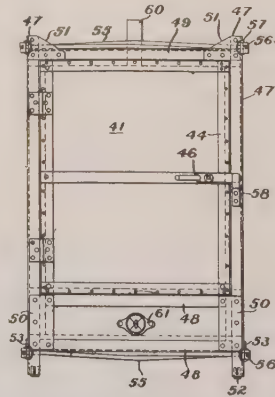
1. The combination of a doll, a skirt carried by the doll and hanging loosely therefrom, a bar mounted for movement transversely of the doll, said bar, at its ends, contacting with said skirt, and means to impart to the bar a variable movement transversely of the doll.

1,422,856. CENTRIFUGAL MACHINE. CYRUS HOWARD HARGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 5, 1921. Serial No. 466,962. 5 Claims. (Cl. 233—41.)



1. A convertible centrifuge comprising a bowl body, a liner within the bowl comprising a number of discs for dividing the liquid into layers, there being openings for the escape of liquid constituents of different specific gravities, a removable bowl cover, and a removable annular gasket adapted when inserted in the bowl, to be confined in non-adjustable position between the bowl cover and the liner in position to block the escape of liquid through one of said openings.

1,422,857. ELECTRIC OVEN. JULIUS D. HAYNSWORTH, Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Pennsylvania. Filed Aug. 3, 1921. Serial No. 489,478. 4 Claims. (Cl. 25—132.)

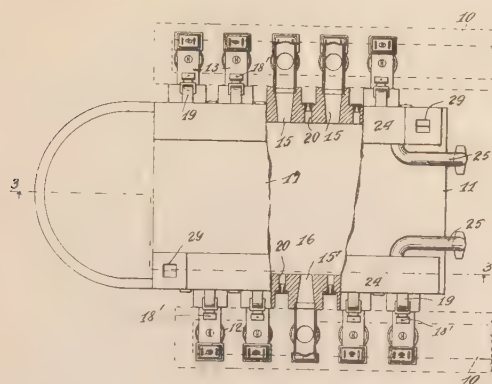


1. An oven comprising a back mounting panel having a channel in one face adjacent its periphery, a top and a bottom panel having one edge located in a co-operating portion of said channel, side panels having one edge located in a co-operating portion of said channel, a bottom front panel having a channel in one face adapted to fit over one edge of the bottom panel, a rear metal frame, a front metal frame and rods for clamping said frames against said oven panels.

1,422,858. MELTING TANK. GUY C. HEILMAN, Philadelphia, Pa. Filed Oct. 20, 1919. Serial No. 331,804. 7 Claims. (Cl. 49—54.)

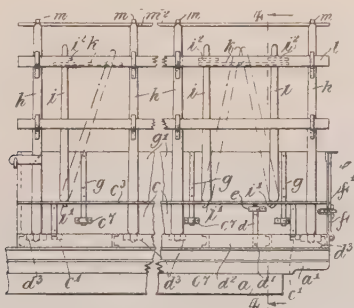
1. A device of the class described, provided with a main chamber, combustion chambers discharging into said main

chamber at one side, and peep-holes located in the opposite wall of the main chamber, in line with the said combustion chambers.



4. A device of the class described, provided with a main chamber of substantially rectangular shape having outlets at diagonally-opposite corners, combustion chambers discharging into said main chamber, and air-heaters each provided with an approximately horizontal air-chamber delivering air to one of said combustion chambers, and hot-gas chambers located above and below said air-chamber and connected at one end, the lower chamber being connected with the outlet of the main chamber at the other end, while the other end of the upper chamber has an outlet connection.

1,422,859. BODY FOR FARM TRUCKS. EDWARD R. HEWITT, Midvale, and JOHN H. BLAKE, JR., East Orange, N. J., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 24, 1921. Serial No. 480,210. 3 Claims. (Cl. 296—14.)

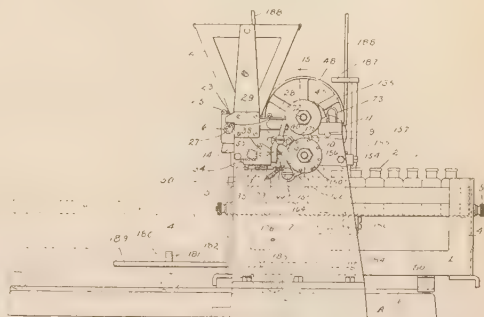


1. In a farm body for motor vehicles an all-steel bed, steel sides hinged thereto, unitary triangular steel braces pivotally supported at the sides of the bed and adapted to engage the sides of the body to support them in vertical position to form a box body, said braces being movable independently of the sides to a point below the hinge line to permit the sides to swing downwardly and outwardly into line with the bed to form a platform body, and bolsters secured at the side of the bed to support the sides in lowered position and house the braces when in lowered position.

1,422,860. PILL-COUNTER AND BOTTLE-FILLING MACHINE. WILFORD A. HILL, Waltham, Mass., assignor to B. O. & G. C. Wilson, Inc., Boston, Mass., a Corporation of Massachusetts. Filed June 3, 1921. Serial No. 474,819. 21 Claims. (Cl. 226—2.)

1. A machine of the class described comprising a support for a series of rows of containers, means to feed

articles into each container of a row, and means acting after each container of said row has received a predeter-

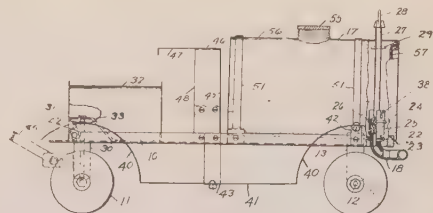


mined number of articles for moving said support to present a succeeding row of containers to said feeding means.

1,422,861. LIQUID COATING COMPOSITION. CARL D. HOCKER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 11, 1919. Serial No. 344,177. 6 Claims. (Cl. 134—26.)

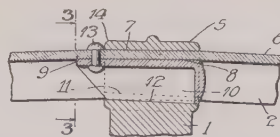
3. A liquid coating composition resulting from a combination comprising glycerine, congo copal, free fatty acid and castor oil.

1,422,862. TOY SPRINKLER. EMIL G. HOFMANN, Chicago, Ill. Filed Feb. 28, 1920. Serial No. 362,129. 2 Claims. (Cl. 46—48.)



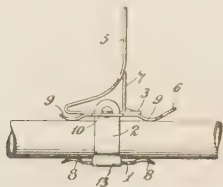
1. In a toy sprinkler, a frame, wheels supporting the rear end of said frame, a pair of wheels for the front end of said frame, an axle connecting said pair of wheels, a bolster supported by said axle, and supporting the front end of said frame, a casing on the front end of said frame, a bracket having one end fixed to the frame within said casing and having the other end fixed to the front end of said casing a material distance above said frame, and a bolster pin extending through said bracket, said bolster, and said axle.

1,422,863. BRAKE BEAM. CHARLES F. HUNTOON, Chicago, Ill. Filed July 11, 1921. Serial No. 483,835. 5 Claims. (Cl. 188—231.)



5. A brake beam comprising compression and tension members secured together at their ends, a central strut, said compression member being in the form of a channel bar, a wedge between the web of the compression member and the strut, said strut having an inclined surface for coacting with the wedge, and means for securing the wedge to the compression member.

- 1,422,864. TUBE COMPRESSOR. FRANK S. HYATT, Brooklyn, N. Y. Filed Nov. 5, 1920. Serial No. 422,013. 2 Claims. (Cl. 251—5.)



1. In a sheet metal compression clamp of the character described, the combination of two separate oblong pieces of sheet metal disposed transversely to one another, one of said pieces being a flat piece of sheet metal constituting the lower clamping member and located wholly below the tube to be clamped, the other piece being longer than the first and having its ends bent up to form the ears for the cam operating upon a separate upper clamping member and means for securing the two sheet metal pieces together one upon the other, to form a sheet metal base of double thickness.

- 1,422,865. BURGLAR GUN. FRANCIS S. JOBSON, Montone, Ala. Filed Feb. 18, 1922. Serial No. 537,572. 3 Claims. (Cl. 89—27.)



3. A burglar gun including a base, a barrel and a firing pin mounted on said base, a standard, a spring-pressed plunger mounted thereon and operatively connected with the firing pin, said plunger having a notch formed therein, a lever pivoted to the rear of said standard and normally engaging said notch, a bell-crank lever pivoted at one side of the standard and normally engaging the first-named lever, and a latch for locking said first-named lever in its plunger engaging position.

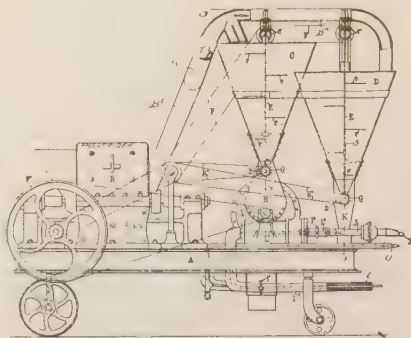
- 1,422,866. COTTON DYES. HEINRICH JORDAN, Leverkusen, near Cologne, Germany, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 27, 1919. Serial No. 326,984. 2 Claims. (Cl. 8—1.)

1. The new trisazodyes being derived from 1,4-diaminonaphthalene sulfonic acid, naphthylamin sulfonic acid a naphthol compound and resorcin, which are after being dried and pulverized in the shape of their salts with alkali metals dark powders soluble in water with a bluish coloration, and being soluble in concentrated sulfuric acid generally with a greenish coloration, dyeing cotton pure greenish-blue which is rendered fast to washing by an after-treatment with formic aldehyde; being broken up by treatment with stannous chlorid and hydrochloric acid into a 1,4-naphtholenediamin sulfonic acid, an aminooxy-naphthalene and 1,3-dioxy-4-aminobenzene, substantially as described.

- 1,422,867. APPARATUS FOR FEEDING FUEL TO FURNACES. VLADIMIR KARYCHEFF and PRINCE EUGENE GAGARIN, Paris, France. Filed Feb. 16, 1922. Serial No. 537,112. 5 Claims. (Cl. 110—104.)

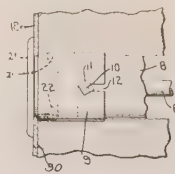
4. The combination with a wheel supported truck, of a fuel pulverizing mill mounted on said truck, an injector pipe carried by said truck and provided at its forward end with a nozzle, a combined suction and pressure fan mounted on said truck and having means connecting

its outlet to said injector pipe, a chute carried by said truck and connected to the inlet of said fan, a hopper connected to said chute, means permitting air to enter said



chute, and a conveyor supported by the truck and arranged to convey powdered fuel from the pulverizing mill to said hopper.

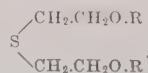
- 1,422,868. MOUNTING FOR DRAFT REGULATORS. FREDERICK C. KASCH and GEORGE F. NEFF, Akron, Ohio. Filed Dec. 3, 1921. Serial No. 519,608. 6 Claims. (Cl. 126—295.)



1. A draft regulator comprising a damper, a rotary shaft for the damper, a tubular housing to receive the shaft, a longitudinally adjustable extension on said housing, means to secure said extension in varying positions of adjustment so as to be flush with a wall, a cover plate on the end of the extension, spiral grooves in the cover plate and pins on the extension adapted to be received in the grooves, whereby the cover plate can be rotated into positions at varying distances from the end of the extension.

- 1,422,869. ESTERS OF DIOXYDIETHYLSULPHIDE AND PROCESS OF MAKING SAME. GEORG KRÄNZLEIN, Sindlingen, near Höchst-on-Main, and MARTIN CORELL, Höchst-on-Main, Germany, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-Main, Germany, a Corporation of Germany. Filed July 2, 1921. Serial No. 482,151. 2 Claims. (Cl. 260—106.)

2. As new products, the compounds of the general formula:

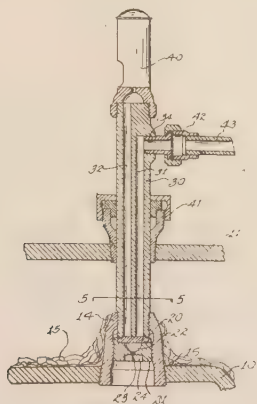


wherein "R" stands for any inorganic or organic acid residues.

- 1,422,870. LOW-WATER ALARM. CHARLES A. KOTHE, Gallion, Ohio. Filed Feb. 21, 1921. Serial No. 446,922. 23 Claims. (Cl. 122—504.1.)

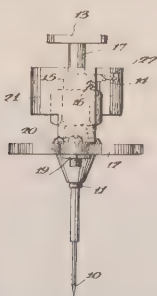
14. In a device of the class described, a steam boiler, a fusible plate adjacent the crown sheet thereof, pipe connections communicating with two adjacent points on the face of said plate and sealed thereby, the other ends of said

pipe connections being connected respectively with the steam in said boiler and an alarm, the central portions of



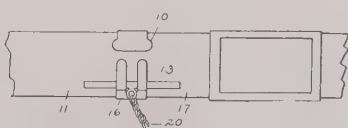
the underside of said plate being unsupported to allow warping of the plate for passage of steam to said alarm slightly before the plate melts.

1,422,871. ATTACHMENT FOR CARBURETORS. LEO F. LIESER, Sidney, Iowa. Filed June 4, 1919. Serial No. 301,679. 2 Claims. (Cl. 261—39.)



2. A carburetor having a fuel valve provided with a stem, a cap piece for the carburetor in which the stem has a threaded connection whereby to reciprocate the stem when it is rotated, an arm secured to the stem and outstanding therefrom above the cap, a thermostat surrounding the stem above the cap having an angular extension at one end anchored to the cap and having its opposite end provided with an L-shaped recess forming an upstanding lug, said arm outstanding from the stem having its outer end projecting into the recess and provided with an aperture to receive the said lug as described.

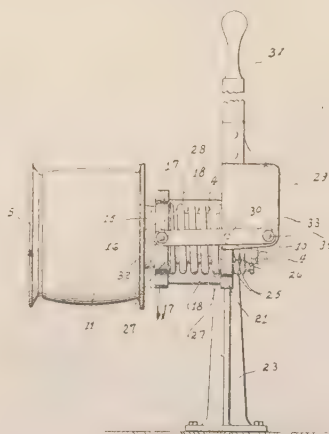
1,422,872. WATCH-CHAIN FASTENER. JOHN LOMAN, Bristol, Conn. Filed Feb. 23, 1922. Serial No. 538,820. 1 Claim. (Cl. 24—3.)



A watch chain fastener formed of a single piece of metal having one wall substantially full and unbroken, having the opposite wall of skeleton form, said walls being separated by a belt receiving space and connected at the

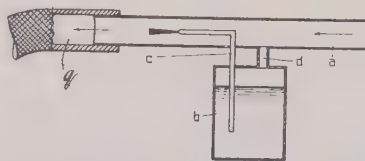
top and bottom by short connecting pieces, a pair of spring fingers in spaced relation for receiving a watch chain guard and chain end connected to said guard, and said fingers being in the form of extensions of the border wall on one side of said belt receiving space.

1,422,873. CLUTCH PULLEY. JOHN F. McNALLY and RALPH A. BRADLEY, Emporia, Kans. Filed Jan. 26, 1921. Serial No. 440,071. 2 Claims. (Cl. 192—99.)



1. The combination with an engine shaft, and a sleeve secured thereon, said sleeve being provided with a clutch head at its inner end, of a pulley fitted about the sleeve and having a clutch chamber in one end receiving and adapted to engage the said clutch head, a shifter frame slidably fitted upon the sleeve and bearing against the outer end of the pulley, a second frame fitted about the outer end of the sleeve, means for holding the said second frame in a fixed position, a lever head pivoted to the said second frame, a link pivotally attached at its inner end to the shifter frame and having its outer end pivoted to the lever head eccentric to the pivotal connection between the said head and the said second frame, and a spring coiled around the sleeve between the shifter frame and the said second frame.

1,422,874. ART OF EXTRACTING COAL IN MINES. HERMAN MACK, Hamm, Germany. Filed Oct. 3, 1917. Serial No. 194,519. 6 Claims. (Cl. 262—1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

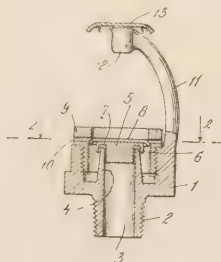


1. A process of extracting coal, consisting in introducing a moistened compressed gaseous fluid into a bore hole of the coal bed.

1,422,875. SPRINKLER HEAD. THOMAS J. MADIGAN, Brooklyn, N. Y., assignor of one-fourth to James O. Schwank, New York, N. Y. Filed Apr. 7, 1920. Serial No. 371,907. 2 Claims. (Cl. 169—41.)

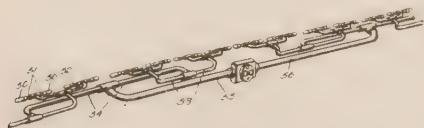
2. A sprinkler head comprising, in combination, a threaded fitting, a collar threaded to the interior thereof and

readily removable therefrom for renewals, a plug closing the water passage of said fitting, a low fusing disc there-



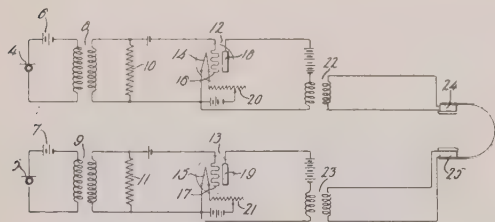
over, said collar engaging the edge of said disc and holding said plug to its seat over the water passage.

1,422,876. DETERMINATION OF WAVE-ENERGY DIRECTION. MAX MASON, New London, Conn., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed June 25, 1919. Serial No. 306,683. 8 Claims. (Cl. 181—26.)



1. In apparatus of the character described, the combination of sound receivers disposed in a row, divided into two sections of a series of receivers each, means for bodily turning the row of receivers, a listening device having two ear pieces, one for each ear of the observer, and energy collecting means having branching tributary paths between the receivers of each section and the corresponding ear piece of the listening device, the several paths all having the same time of energy travel from the receivers to the listening device, substantially as described.

1,422,877. ACOUSTICAL AID FOR DEAF PERSONS. JOSEPH P. MAXFIELD, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 2, 1920. Serial No. 348,868. 5 Claims. (Cl. 179—107.)



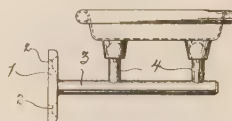
3. A binaural system for deaf persons comprising a pair of microphones having highly damped vibrating systems, a corresponding pair of telephone receivers, a separate amplifying circuit connecting each of said microphones with the corresponding receiver, and means for adjusting the degree of amplification in said circuits.

1,422,878. RETORT. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, New York, N. Y., a Corporation of New York. Filed Oct. 11, 1917. Serial No. 195,951. 2 Claims. (Cl. 263—41.)

1. A retort adapted for use in the manufacture of alkali metal cyanide and to be subjected to the action of oxidiz-

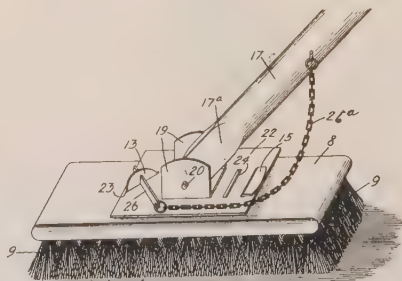
ing gases at high temperature, the retort comprising a body of ferrous metal which is corrodible by said gases and a protecting skin coating applied to the outer surface of the body and consisting of a base metal alloy which resists the oxidizing action of said gases.

1,422,879. ASH TRAY AND RECEPTACLE. SIEGFRIED MEYER, New York, N. Y. Filed Aug. 6, 1920. Serial No. 401,699. 1 Claim. (Cl. 131—51.)



A device of the class described comprising a base plate, a horizontal stem rigid to and extending rigidly therefrom, uprights extending in spaced apart relation from said stem, resilient heads on said uprights, and a tray or receptacle having hollow elements to removably engage over said heads.

1,422,880. MECHANICAL CONNECTOR. WILLIAM HERMAN MICHAELSEN, Mount Vernon, N. Y. Filed May 8, 1919. Serial No. 295,741. 2 Claims. (Cl. 306—23.)

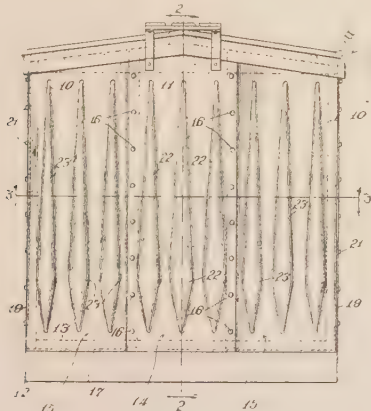


1. A device of the character described comprising a cleat made of sheet metal and having the form of a flat plate, said cleat being provided with an upturned lip and with an extending portion formed into a hook, a connector plate provided with a slot for receiving said upturned lip and with another slot for receiving said hook, a fastening member for detachably engaging said lip and an adjacent portion of said connector in order to prevent the separation of said connector plate from said cleat, and a handle mounted upon said connector plate by means of a flexible connection.

1,422,881. CORRUGATED-SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Division of application Serial No. 82,423, filed Mar. 6, 1916 (now Patent No. 1,309,484, dated July 8, 1919), through the copendency of its division Serial No. 304,429, filed June 10, 1919, renewed May 28, 1921, Serial No. 473,318. This application filed Nov. 15, 1920. Serial No. 424,124. 15 Claims. (Cl. 105—410.)

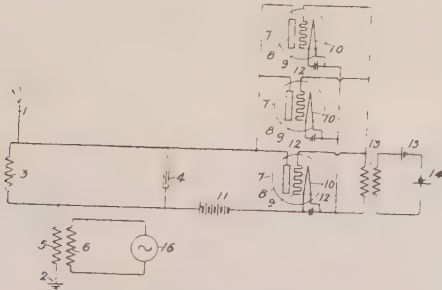
9. A sheet metal end structure for a railway car formed with a plurality of groups of substantially parallel corrugations each of which corrugations is of maxi-

mum depth at a point intermediate its ends and tapers therefrom toward its ends, the corrugations of each



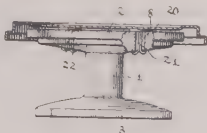
group being of substantially uniform configuration but those of one group being deeper than those of another group.

1,422,882. RADIO TRANSMISSION. HAROLD W. NICHOLS, Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Sept. 1, 1915, Serial No. 48,452. Renewed Jan. 2, 1920. Serial No. 348,880. 3 Claims. (Cl. 250—19.)



1. In a radio transmission system, an antenna, a source of high-frequency power supplying said antenna, a thermionic discharge path arranged to carry a fraction of the power for said antenna, a source of waves of signaling frequencies, and means for varying the power carried over said thermionic path in accordance with said waves.

1,422,883. FRUIT-JAR COVER. WILLIAM ROBERT NIPPER, Grants Pass, Oreg. Filed Nov. 10, 1921. Serial No. 514,234. 5 Claims. (Cl. 215—81.)

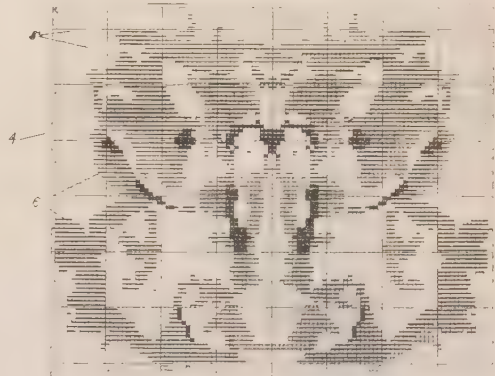


3. The combination with a fruit jar cover of an attachment therefor, said attachment comprising a body portion having a flange at each end thereof, and fastening means carried by said cover for detachably securing said attachment to said cover to depend from the under side of said cover.

1,422,884. PROCESS OF MANUFACTURE OF SPONGE RUBBER. ANDERS JOHN ØSTBERG and ALBERT KENNY, Richmond, near Melbourne, Victoria, Australia, assignors to The Standard Rubber Works Proprietary Limited, Melbourne, Victoria, Australia, a Corporation of Victoria. Filed Aug. 18, 1920. Serial No. 404,340. 1 Claim. (Cl. 18—53.)

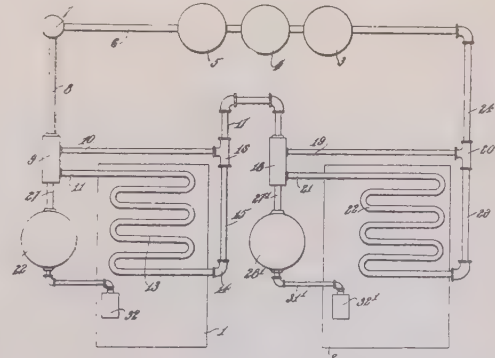
A process for the manufacture of a spongy rubber material comprising mixing together 15 lbs. Pará rubber, 15 lbs. reclaimed rubber, 13 lbs. sulphur, 9 lbs. zinc white, 1½ lbs. carbonate of magnesia, then adding a volatile mineral oil to soften the rubber ingredient, and vulcanizing the same.

1,422,885. METHOD OF MANUFACTURING DESIGN CARDS. HERTA OTTOLENGHI-WEEKIND, Genova, Italy. Filed Mar. 22, 1922. Serial No. 545,878. 1 Claim. (Cl. 41—17.)



In a method of forming designs which consists in producing a portion of a design on sized coordinate paper, completing the design by folding said paper upon itself and then recording said design on a second sheet of coordinate paper by means of straight lines corresponding to the pattern of said design to provide on the second sheet a record of the design for reproduction on any article upon which coordinate squares have been indicated, by means of the said straight lines, said lines by means of various characteristics indicating the various colors.

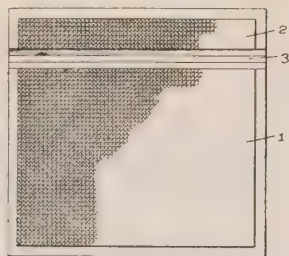
1,422,886. TEMPERATURE-CONTROLLING SYSTEM. PERCY R. OWENS, Mount Kisco, N. Y. Filed Feb. 27, 1920. Serial No. 361,687. 2 Claims. (Cl. 62—6.)



2. In a controlling system, the combination of a circulating system for refrigerating fluid, including a coil in a refrigerator and having inlet and exit pipes, a valve chamber included in said inlet pipe, a bypass pipe

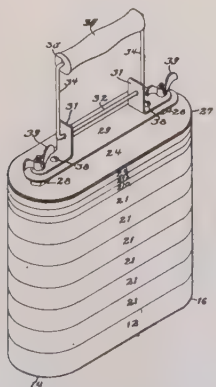
leading from said valve chamber, an automatic bypass valve in said chamber adapted to be moved to vary the relative extent of the openings of said inlet pipe and said bypass pipe, a thermostatic device within the refrigerator and connections between the same and said bypass valve adapted to move the latter in one direction or the other as the temperature in the refrigerator rises or falls to simultaneously vary the extent of the openings of said inlet pipe and of said bypass pipe into said valve chamber, a second coil in a refrigerator, said bypass pipe leading into said coil, a valve chamber in said bypass pipe adjacent said second coil, and another bypass pipe communicating with said valve chamber, an automatic bypass valve in said second chamber adapted to vary the relative extent of the openings of said pipe leading into said second coil and of the bypass pipe, and means comprising a thermostatic device within said second refrigerator and connections between the same and said bypass valve, whereby the relative extent of the openings of the said two pipes leading from said valve chamber are simultaneously varied as the temperature in the refrigerator rises or falls.

- 1,422,887. MAT. RAYMOND H. PHILLIPS, Trenton, N. J. Filed Dec. 12, 1919. Serial No. 344,286. 3 Claims. (Cl. 280—169.)



1. A mat for protecting the running board and dust guard of an automobile beneath a door opening comprising a rubber section to be placed on the running board and provided with a roughened top surface, and a second rubber section to be placed in contact with the dust guard, said second section being integrally connected to said first section by a thin strip of rubber joining said first section near its base.

- 1,422,888. EXERCISING DEVICE. LESLIE C. REEVES, Pitman, and MORTIMER A. WEBB, Jr., Camden, N. J. Filed Dec. 21, 1920. Serial No. 432,239. 5 Claims. (Cl. 46—69.)



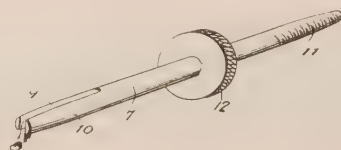
1. A portable exercising device having an elongated body portion with substantially parallel sides merging

into curved end surfaces and being of greater length than width; and a handle extending directly upward from the top of said body portion and having a connection with the body portion including a pivot bearing allowing the handle to swing relatively to the body portion in the direction of the width of said body portion, said handle including a grip extending approximately parallel with the length of said body portion; substantially as described.

- 1,422,889. MANUFACTURE OF 9,10-DIHALOGENANTHRACENE- β -MONOSULPHONIC ACID. KARL SCHIRMACHER, Höchst-on-the-Main, Germany, assignor to Hermann A. Metz, New York, N. Y., a Corporation. Filed Oct. 23, 1920. Serial No. 419,157. 4 Claims. (Cl. 23—24.)

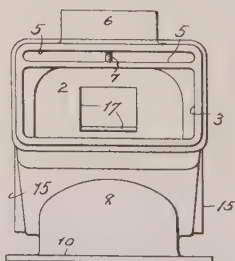
1. As a new process, the preparation of 9,10-dihalogenanthracene- β -monosulphonic acids, which consists in causing fuming sulphuric acid to act upon 9,10-dihalogenanthracene in presence of an indifferent agent.

- 1,422,890. VALVE TOOL. CHARLES DIXES SEVIER and FRANK PETER ECKROAT, Fort Collins, Colo. Filed Jan. 19, 1921. Serial No. 438,491. 1 Claim. (Cl. 81—3.)



In a valve tool, a cylindrical body, one end of said body being tapered and screw-threaded on the tapered portion, the other end being bifurcated to form resilient fingers, and a grip mounted on the body, as and for the purposes set forth.

- 1,422,891. GAS BURNER FOR FURNACES. CHESTER L. SHARP, Lancaster, Ohio; Georgia Sharp administratrix of said Chester L. Sharp, deceased. Filed June 10, 1921. Serial No. 476,629. 5 Claims. (Cl. 158—109.)

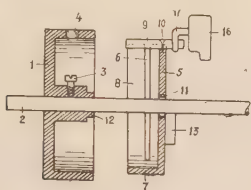


2. A gas burner of the type specified having a gas inlet portion formed with an inclined valve seat, an inclined valve to rest on said seat, means for manipulating said valve, and arms projecting from said valve and engaging a portion of the burner body adjacent to the lower portion of the valve, whereby when the valve is raised it will leave all portions of the seat.

- 1,422,892. DEVICE FOR GRADUATING LINES ON RULED PAPER. BARNETT SHATZ, Buenos Aires, Argentina. Filed Jan. 21, 1921. Serial No. 438,970. 4 Claims. (Cl. 197—123.)

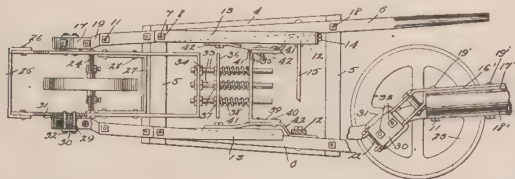
1. In a typewriting machine, a platen roll shaft, a hollow wheel fixed thereto and adapted to be turned by the operator for adjusting the platen roll, a second wheel

rotatable about said shaft and having a portion extending within the first mentioned hollow wheel, the second mentioned wheel being provided with integral resilient segments, a lever pivotally mounted on the second mentioned wheel and extending between the ends of said segments, an



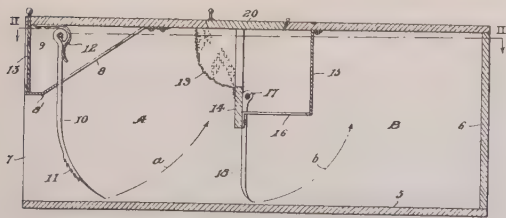
operating member for swinging said lever about its pivot in one direction to cause said segments to separate and engage the inner surface of said hollow wheel, and means fixed to said second wheel and adapted to engage a spring for moving the second wheel in the opposite direction.

1,422,893. WHEELBARROW. WILLIAM E. SHOWALTER, Huntingburg, Ind. Filed June 10, 1919. Serial No. 303,148. 3 Claims. (Cl. 280—52.)



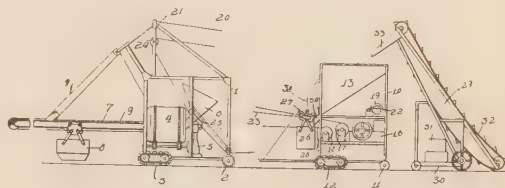
1. A wheel-barrow comprising a body, guides carried by said body, a sliding frame supported by said guides and capable of rearward and vertical movement with respect to said body, spring means associated with said frame in such a way as to be placed under compression by the rearward and vertical movement thereof, and a supporting wheel carried by the frame and movable therewith.

1,422,894. ANIMAL TRAP. ALEKSANDER SKUBINSKI, Los Angeles, Calif. Filed July 28, 1920. Serial No. 399,566. 3 Claims. (Cl. 43—66.)



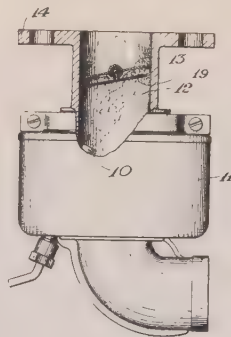
1. A trap of the class described including a box-like casing having a rear door and a front entrance opening, a partition for dividing the box into a plurality of compartments, closing means for the main compartment, comprising a plurality of pivotally mounted spring pressed fingers curved at the lower ends and provided with a series of teeth to prevent backward movement of the animal.

1,422,895. ROAD-BUILDING APPARATUS. CARL A. SMITH, Defiance, Ohio. Filed June 9, 1920. Serial No. 387,648. 1 Claim. (Cl. 214—1.)



Road building apparatus including movably supported mixing mechanism, a bin structure movable relative to the mixing mechanism to position for receiving materials to be mixed, a track cable connecting the bin structure to the mixing mechanism and adjustable in length so as to be substantially taut when the mixing mechanism and the bin structure are at any distances apart, a bucket movably supported by said cable, means for directing materials into the bucket from the bin structure, and means movable with the bin structure for shifting the bucket to convey material from the bin structure to the mixing mechanism, and means on the bin structure for engaging and supporting the bucket while the track cable is slack during the movement of the bin structure relative to the mixing mechanism.

1,422,896. HEATING COIL FOR CARBURETORS. EDGAR M. SORENG, Milwaukee, Wis., assignor to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 7, 1918. Serial No. 210,692. 5 Claims. (Cl. 219—38.)

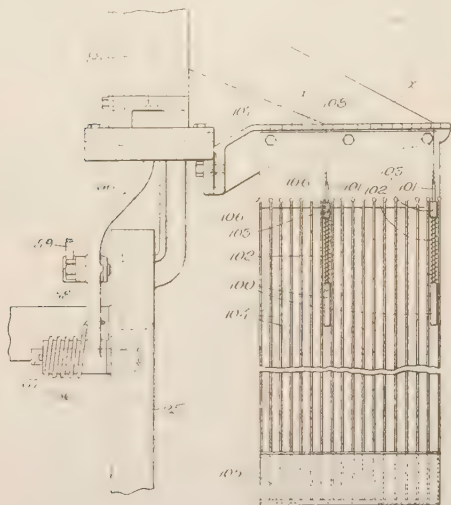


1. In a carburetor, a throttle valve, and a helix of resistance wire secured on one face thereof forming an exposed electric heating coil.

1,422,897. AUTOMATIC FILLING-REPLENISHING LOOM. WILLIAM S. SOUTHWICK, Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation, a Corporation of Massachusetts. Filed July 10, 1917. Serial No. 179,677. 11 Claims. (Cl. 139—85.)

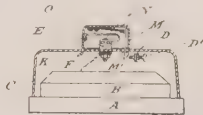
1. The combination with a loom, a shuttle, a filling magazine and a plurality of filling units therein, and means arranged to transfer said filling units, one by one, from said magazine to said shuttle, of a plurality of weights and guides therefor, said weights being movable

up and down independently of each other when the filling ends are attached respectively to them, said weights being



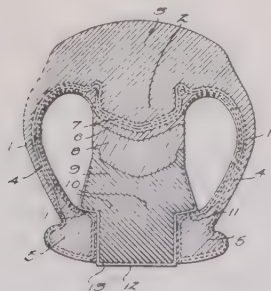
arranged to take up slack from said filling ends and to yield up such slack in consequence of the first traverse of each filling unit through the shed.

1,422,898. AUTOMATIC SWITCH FOR ELECTRIC HEATING APPLIANCES. BENJAMIN GEORGE CLAUDE STEPHENS, Auckland, New Zealand. Filed Feb. 14, 1920. Serial No. 358,792. 2 Claims. (Cl. 200—138.)



1. In automatic switches for electric heating appliances, the combination with a bimetallic thermostatic strip arranged within the heating influence of an electric heating circuit embodying a pair of terminals, a switch constructed to bridge such terminals and held in position against the action of a spring normally forcing it on the terminals, and releasing means for the said switch adapted to be engaged and operated by the movement of the bi-metallic strip through its expansion beyond a predetermined extent, substantially as specified.

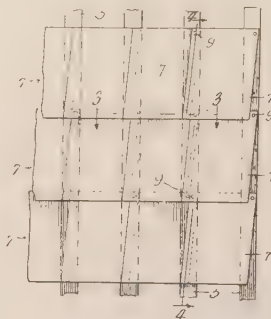
1,422,899. TIRE. DANIEL L. STOUCH, York, Pa. Filed Apr. 13, 1922. Serial No. 552,269. 3 Claims. (Cl. 152—1.)



2. In a device of the character described, a casing having a crown portion, said crown portion being provided

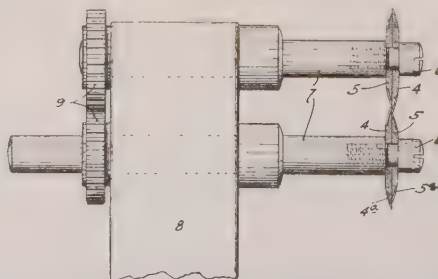
with an inwardly extending portion, fabric reinforcing arranged in said casing and extending through said inwardly extending portion, and a rib formed on said inwardly extending portion and projecting toward the base of the tire, the lower end of said rib being reduced to form shoulders adapted to engage the inner edges and top of the tire beads when the tire is in position.

1,422,900. ASH HOPPER. ARTHUR P. STRONG, Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Oct. 6, 1921. Serial No. 505,703. 3 Claims. (Cl. 189—3.)



1. A tank wall, comprising plate supporting beams, plates arranged inside of said beams and closing the spaces between the same, and bolts securing the plates to said beams, the heads of the bolts being inside and overlapped and covered by the marginal portions of adjacent plates for protecting the bolts from contact with the material packed against the inside of said wall, said plates having recesses to receive and accommodate the bolt heads.

1,422,901. CUTTING DEVICE FOR LEATHER SOLES. GEORGE ORVILL TERRY, Minneapolis, Minn., assignor to Economy Shoe Machine Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 16, 1920. Serial No. 403,647. 8 Claims. (Cl. 164—70.)

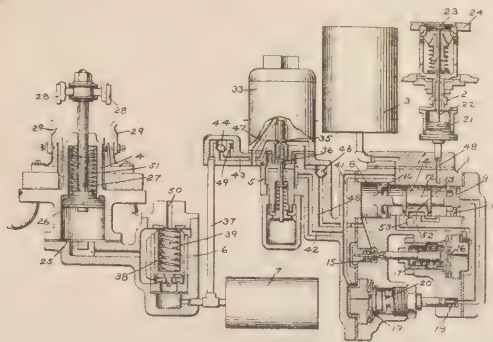


6. A cutting wheel comprising two concentrically arranged disks having contacting plane surfaces and outwardly disposed beveled and radial grooved surfaces, the wheels being of different diameter.

1,422,902. STARTING AND UNLOADING DEVICE. FRANK B. THOMAS, Wilkesburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 13, 1919. Serial No. 337,717. 6 Claims. (Cl. 230—24.)

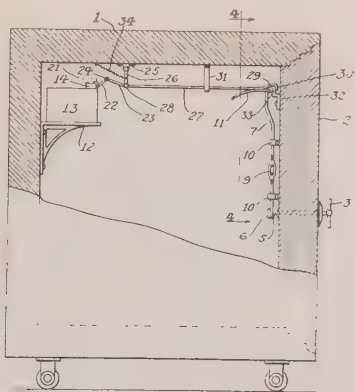
1. In a starting and unloading apparatus for an internal combustion engine driven fluid compressor, the combination with a motor for starting the engine, of a device for unloading the compressor, a switch device for controlling the motor circuit, and means for operating said device to effect the unloading of the compressor and

for then operating said switch device to close the motor circuit.



5. The combination with a motor for starting an internal combustion engine and a fluid compressor adapted to be driven by said engine, of a device for unloading the compressor, a valve mechanism operated by variations in fluid pressure for effecting the operation of said unloading device, a fluid pressure operated switch device for controlling the motor circuit, a timing reservoir, a valve device operated according to the pressure in said timing reservoir for supplying and releasing fluid under pressure to and from said switch device, and magnet controlled valve means for varying the fluid pressure on said valve mechanism and in said timing reservoir.

1,422,903. DEVICE FOR PROTECTING SAFES OR OTHER ENCLOSURES. GERALD W. TIFFANY, New York, N. Y., assignor of one-half to Norman J. Fitzsimmons, New York, N. Y. Filed May 28, 1921. Serial No. 473,297. 3 Claims. (Cl. 109-6.)

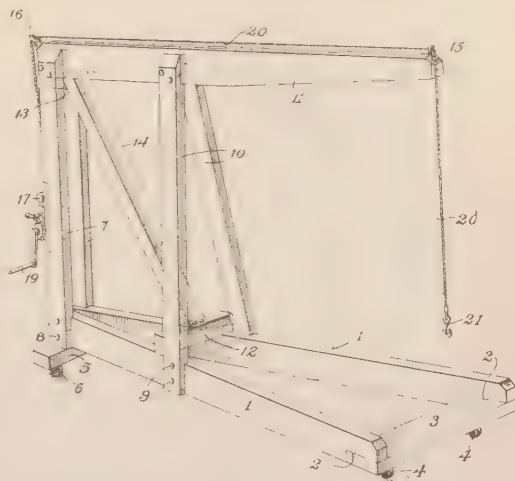


1. A device of the kind described comprising in combination an enclosure to be protected, a door giving access thereto, a container within said enclosure holding a noxious substance, an opening in said container, a cap for said opening, means tending to force said cap out of said opening, a catch for retaining said cap in said opening, and means connected to said catch and adapted to release the same when said door is forced open.

1,422,904. HOISTING APPARATUS. LAWRENCE T. TRUCKER, Pollock, Mo. Filed Apr. 20, 1921. Serial No. 462,858. 1 Claim. (Cl. 212-142.)

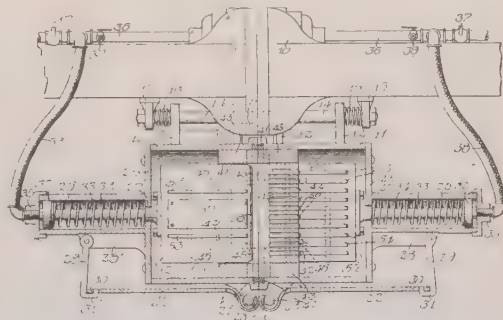
In a hoisting apparatus, the combination of a pair of horizontal base beams, a pair of spaced, parallel, rear standards secured to said base beams, a pair of inclined front standards secured to said base beams near their

center, a horizontal top beam secured between the upper ends of all of said standards, a block secured against the under face of said top beam and between said rear standards, a horizontal cross piece secured to the top of said base beams against the rear edges of the front standards,



an inclined brace secured at its lower end upon the top of said cross piece and secured against the under face of the top beam in engagement with the front face of said block, and hoisting means carried by the rear standards and by the top beam, substantially as shown and described.

1,422,905. ELECTRIC COUPLING. CHARLES H. TOMLINSON, Mansfield, Ohio, assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio, a Corporation of Ohio. Filed June 22, 1912. Serial No. 705,149. Renewed Nov. 15, 1920. Serial No. 424,253. 26 Claims. (Cl. 173-332.)

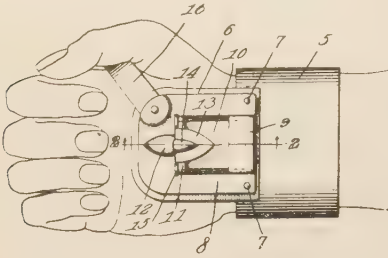


26. In an electrical coupling mechanism for cars, the combination of a casing adapted to be supported upon the end of a car, a movable contact carrier mounted in a normally inoperative position in said casing, a movable member operatively connected to said carrier, contact fingers mounted in said casing and connected to the respective train line circuits, and means for actuating said movable member to shift the contact carrier to its operative position to establish electrical connection with the contacts of a counterpart coupling mechanism on an adjacent car.

1,422,906. CORN-HUSKING HOOK. ALFRED D. WAGNER, Eureka, Kans. Filed Apr. 15, 1921. Serial No. 461,502. 3 Claims. (Cl. 130-4.)

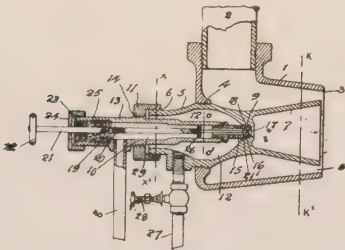
1. A husking implement including, a support, a body portion having an enlargement formed at one end thereof and having its opposite end depressed and contacting with

the support to provide a space between the support and body portion, a husking blade adapted to be positioned



within the space, and said husking blade adapted to engage the enlargement to restrict movement of the blade with respect to the body portion.

- 1,422,907. OIL BURNER. JESSE WILKINSON, Winnipeg, Manitoba, Canada. Filed June 1, 1920. Serial No. 385,674. 1 Claim. (Cl. 158—76.)



A burner comprising a hollow body, having right angularly related inlet and outlet openings and provided with a threaded aperture in line with the outlet, a hollow casing having the intermediate portion thereof threadedly engaged in said aperture and the forward portion thereof projecting into the body, said casing being formed with a flaring mouthpiece, the tip of which terminates at or near the outlet end of the casing and provides, in conjunction with said end, an annular discharge passage leading from the body, a partition wall at the juncture of the casing and mouthpiece formed with an aperture providing a valve seat, a hollow barrel projecting into the casing from the rear end thereof, an adjustable connection between the barrel and casing closing the rear end of the latter and permitting the barrel to be adjusted toward or away from said valve seat, a detachable nozzle carried by the inner end of the barrel and adapted to said seat to control communication between the casing and the mouthpiece, a hollow rod extending through the barrel and having a needle valve at its inner end adapted to a valve seat formed in the tip of the nozzle, and means for supplying oil to the barrel and means for supplying air to the casing.

- 1,422,908. SEAT COVER. EDWARD WITTCOFF, St. Louis, Mo. Filed Aug. 22, 1921. Serial No. 494,336. 1 Claim. (Cl. 155—182.)



A cover for auto seats comprising a back section and a seat section, the lower margin of the back section being provided with eyelets, and the rear side and front margins of the seat section being provided with eyelets, and a lac-

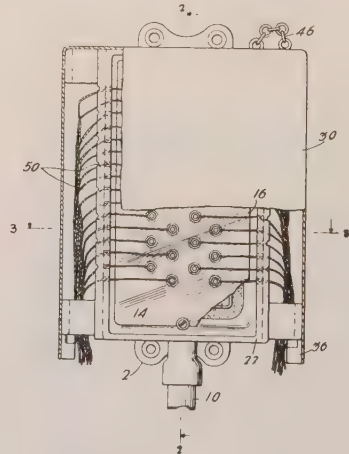
ing string inserted through the eyelets formed in the lower margin of the back section and the rear margin of the seat section, and having a free end adapted to be passed beneath the seat and inserted through the eyelet formed in the front margin of the seat section.

- 1,422,909. METHOD OF TAKING AN ORCHESTRA CONDUCTOR FOR CINEMATOGRAPHIC EXHIBITION. EUGEN WOLFF, Tempelhof, near Berlin, Germany. Filed Mar. 15, 1920. Serial No. 366,171. 1 Claim. (Cl. 88—16.)



In an arrangement for taking an orchestra conductor for cinematographic exhibition, the combination with a taking apparatus of a reflector turned towards the conductor's front to reflect front representations of him into the said taking apparatus, a reflector turned towards the conductor's back, a third reflector turned towards the second said reflector to transmit the back representations to the apparatus, the lower edge of such third reflector separating the two series of images from one another, substantially as set forth.

- 1,422,910. TERMINAL BOX FOR ELECTRIC CABLES. CHARLES R. YOUNG, Bloomfield, and HARRY N. VAN DEUSEN, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1919. Serial No. 272,610. 15 Claims. (Cl. 247—7.)

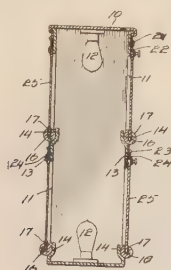


1. A cable terminal-box comprising a rear wall, two opposite end walls extending forwardly from said rear wall, a cover for the box forming a detachable front wall therefor and having rearwardly extending wings arranged to form the side walls of the box, and a pair of partitions connecting said end walls and extending forwardly from said rear wall substantially to the plane of the front edges of said end walls, whereby the box is divided transversely into a central compartment having a removable front wall and two lateral compartments each having a removable front wall and a removable side wall.

- 1,422,911. SIGN CARRIER. JAMES D. AUSTIN and THOMAS ROBERTS, Harrisburg, Ill. Filed Dec. 13, 1921. Serial No. 522,131. 2 Claims. (Cl. 40—142.)

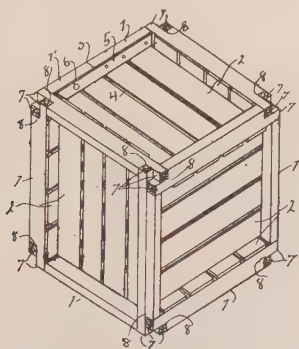
1. In a device of the class described, a supporting structure, a longitudinally grooved rod mounted for oscillation

relative to said supporting structure, and adapted to receive one edge of a character bearing member, and a move-



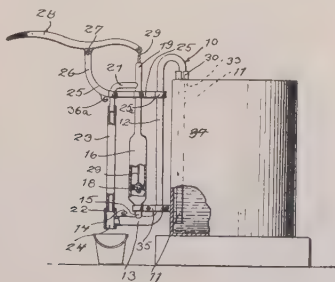
able holding device carried by said supporting structure and engageable with another edge of said character bearing member.

1,422,912. COLLAPSIBLE BOX. ELIAS M. AVERILL, Sparta, Mich. Filed Mar. 16, 1920. Serial No. 366,411. 3 Claims. (Cl. 217—12.)



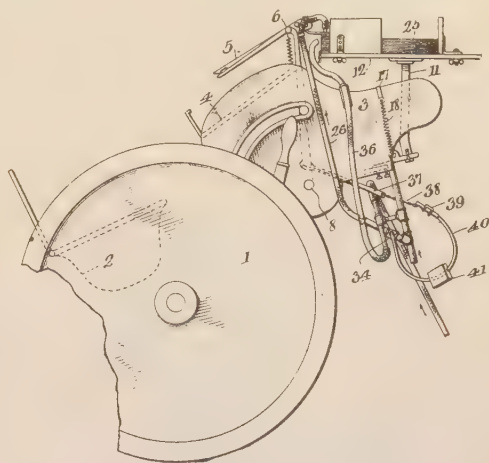
1. In a collapsible box construction, side and end panels, cleats secured to the outer sides of the panels at opposite ends thereof, said cleats made thin and broad, each end of each cleat cut away uniformly one half the width laterally and the full width longitudinally and so formed that the ends of the cleats may be interlocked at the corners of the box and assemble a rigidly constructed collapsible box.

1,422,913. DISPENSING APPARATUS. ERNEST P. BAKER, Manson, Iowa. Filed Mar. 12, 1921. Serial No. 451,924. 4 Claims. (Cl. 221—83.)



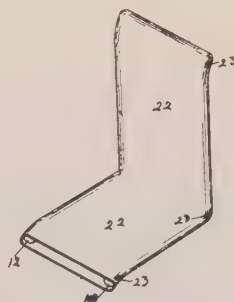
1. In a device of the type described, a siphon embodying two legs one of which embodies a discharge nozzle, a pump associated with said leg and embodying a discharge nozzle, and means for directing the fluid from the discharge nozzle of said pump into the discharge nozzle of the siphon.

1,422,914. AUTOMATIC FEEDER FOR PRESSES. PERRY W. BARKER, Youngstown, Ohio. Filed Sept. 22, 1921. Serial No. 502,415. 7 Claims. (Cl. 101—419.)



1. In a slip sheet feeding device for printing presses, the combination of an oscillating member, pick up devices carried by said member for transferring the printed sheets to a table, a pick up device for the slip sheets mounted for rotary and longitudinal adjustment on said member for transferring the slip sheets to said table, and means for automatically rendering the two pick up devices alternately operative.

1,422,915. VENTILATED AUTOMOBILE DRIVER'S SEAT. DAVID BENSON and GEORGE K. BRUCE, Des Moines, Iowa. Filed Oct. 26, 1920. Serial No. 419,595. 1 Claim. (Cl. 155—131.)



In a ventilated automobile-driver's seat having a frame formed of side members and adjustable connecting means, each connecting means comprising a tube entering one side member laterally, a bolt screwed in said tube and extending through the other side member laterally, and a nut on said bolt between the latter side member and the adjacent end of the tube, said frame being adapted to support a fabric cover in embracing relation thereon, said cover being adapted to be stretched laterally by said connecting means.

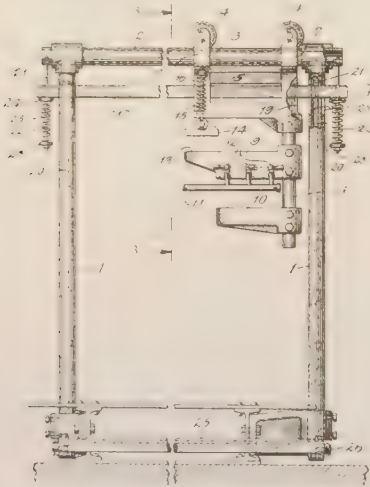
1,422,916. SCREEN GASKET. WILLIAM H. BETTS, Portland, Oreg. Filed Mar. 19, 1921. Serial No. 453,569. 1 Claim. (Cl. 48—180.)



A gasket adapted to be placed between the carburetor and the intake manifold flange of an internal combustion engine, consisting of two thicknesses of backing material

of the same general shape and perforations as are the flanges and having secured between same a flat screen facing the carbureter and a bulging screen facing the manifold, and having mounted across the center of said screens a bridge member, and a rotatable fan mounted on said bridge between said screens.

1,422,917. SOLDERING DEVICE. AXEL W. BJORKMAN, Brooklyn, N. Y. Filed Sept. 21, 1920. Serial No. 411,702. 8 Claims. (Cl. 113—92.)



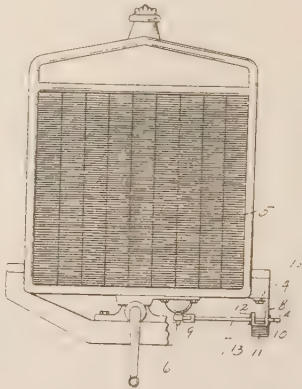
1. In a soldering device, a flux container, a solder container, and a press for pressing the articles being soldered, a portion of said press being carried by the solder container.

1,422,918. DISK BEARING. JOHN C. BOHMKER, Bradley, Ill., assignor to Sears, Roebuck and Company, Chicago, Ill., a Corporation of New York. Filed Sept. 18, 1916. Serial No. 120,603. 1 Claim. (Cl. 64—10.)



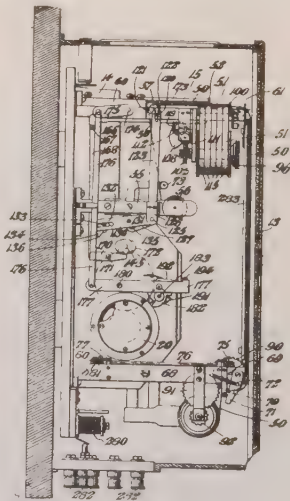
A plow disk gearing comprising an inner member having its exterior surface generated in accordance with Schiele's anti-friction curve or an approximation thereof and hardened by a chilling operation, an an outer member having its interior surface generated on the same or a similar curve complementary to the exterior surface of said inner member and likewise hardened by chilling, said members being secured together in interfitting relation and adapted to be secured respectively to a support and to a plow disk.

1,422,919. RADIATOR PET-COCK ATTACHMENT. MONTE H. ROSE, Indianapolis, Ind. Filed Oct. 28, 1921. Serial No. 511,142. 2 Claims. (Cl. 137—139.)



1. A bar having a recessed end to operatively engage the handle of a radiator drain cock and having a handhold at the opposite end for manipulating the bar, in combination with a bracket for supporting the bar formed of strap metal having a return bend at its lower end forming a double support for the bar, and having its upper end bent and adjustably secured to a supporting member.

1,422,920. MULTIPLE-RECORDING INSTRUMENT. RICHARD P. BROWN and FRITZ WAGNER, Philadelphia, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1920. Serial No. 393,423. 27 Claims. (Cl. 234—55.)

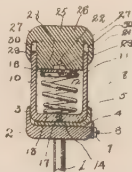


1. In a recording instrument, a meter arranged to respond to a plurality of electrical control circuits one at a time, means for connecting said meter with the respective control circuits, a record strip, means for recording on said strip the respective indications of said meter, and means including a movable anvil element to vary the number of the recorded indications for identifying the recorded indications with the respective control circuits.

1,422,921. VEHICLE TIRE. ERIC BYLUND, Winnipeg, Manitoba, Canada. Filed Nov. 23, 1918. Serial No. 263,885. 2 Claims. (Cl. 152—8.)

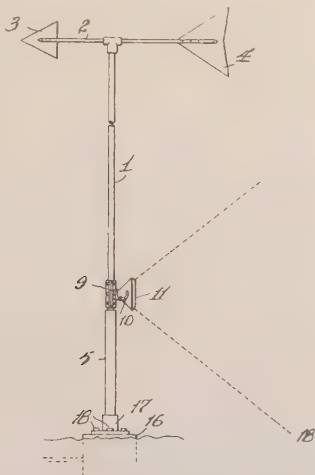
2. A vehicle tire comprising a rigid member adapted for detachable reception on the rim of a wheel and shaped

to form a groove therearound, a plurality of radially disposed coiled springs secured in the groove, a band surrounding the springs and arranged to maintain the same in position, the springs and band filling the groove for a



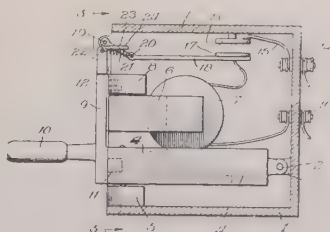
portion of its depth, a cushion mounted on the band and extending circumferentially beyond the groove all around, and side grooves in the cushion for the reception of the sides of the rigid member.

1,422,922. AIRPLANE LANDING DIRECTOR. BURR S. CAMERON, Douglassville, Tex. Filed Mar. 1, 1919. Serial No. 279,933. 5 Claims. (Cl. 73-55.)



1. An airplane landing director comprising a turntable support, a member co-operable with said support for turning it, being susceptible of actuation by air currents, and a light emitting element carried by said support in a position wherein the light rays thereof will be thrown in an alining direction with the air currents.

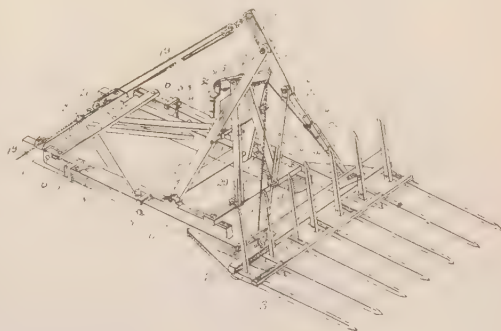
1,422,923. AUTOMATIC CUT-OUT. BERT L. CAMPBELL, Chicago, Ill. Filed Feb. 20, 1920. Serial No. 360,149. 4 Claims. (Cl. 200-93.)



4. In a cut-out, a casing, an armature carried thereby, a permanent magnet pivotally connected to a portion of the casing and arranged to normally rest on said armature, an electro-magnet secured to said casing above said permanent magnet, a second armature disposed above said electro-magnet, means for rigidly connecting said second

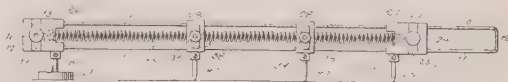
named armature and said permanent magnet together, a stationary contact, a movable contact in circuit with said electro-magnet, means for connecting said movable contact with said first named means, for causing the movable contact to snap into or out of engagement with said stationary contact during the movement of said permanent magnet toward or away from said electro-magnet, and a handle secured to the connecting means between the permanent magnet and the second named armature.

1,422,924. HAY STACKER. EDWARD J. CANTWELL, Kansas City, Mo. Filed Feb. 14, 1921. Serial No. 444,672. 4 Claims. (Cl. 214-142.)



1. In a hay stacker, a base frame, a fork frame pivoted thereto, a swinging support pivoted to the base frame, a lever pivoted to said support, a link connecting said lever and said fork frame, means for swinging said lever in one direction, an auxiliary support pivoted to the base frame and arranged to bear against the first named support for resisting the movement of the latter in one direction, a second lever pivoted to the auxiliary support, flexible means connecting one end of the second lever with the fork frame, and a counter balance weight carried by the other end of the second lever, substantially as set forth.

1,422,925. PROPORTIONAL SCALING INSTRUMENT. JAMES D. CARTER, Chicago, Ill. Filed Feb. 11, 1921. Serial No. 444,131. 7 Claims. (Cl. 33-192.)

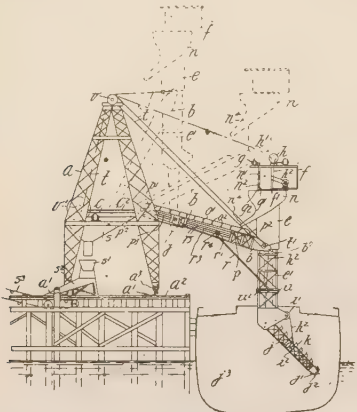


1. In an instrument of the class described, the combination of a frame, a longitudinally extensible and contractible elastic element, relatively adjustable members carried by the frame to each of which the elastic element is secured, an element intermediate the relatively adjustable members and secured to the elastic element, and working instruments one of which is attached to one of the adjustable elements, and one of which is attached to the intermediate element, for the purposes set forth.

1,422,926. UNLOADING APPARATUS. GEORGE CHARLES CHADWICK, Melbourne, Victoria, Australia. Filed July 13, 1918. Serial No. 244,745. 4 Claims. (Cl. 198-88.)

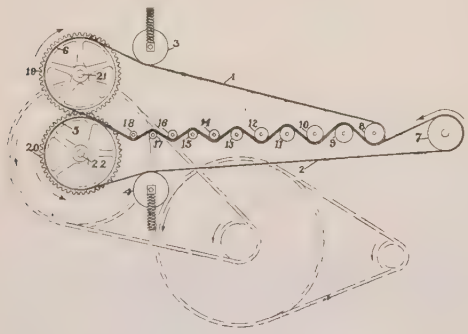
1. Unloading apparatus for vessels, comprising, in combination, a gantry; a conveyor arm hinged thereto at its inner end, and adapted to swing in a vertical plane; a non-rotating sleeve hinged to the outer end of said arm; a rotary elevator well rotatable in said sleeve portion; an adjustable extension hinged to the lower end of the rotary well; a flexible endless elevator guided by said well and extension, and including elevating buckets, adapted to take up material at the outer end of the extension; means for swinging the conveyor arm to raise and lower

the sleeve and well; means for swinging the extension to vary the height of its outer end; inclined thrust-supporting stay-rods; upper hinge connections between the upper ends of said stay-rods and the conveyor arm; lower hinge connections between the lower ends of the stay-rods and the rotary well, said lower connections including



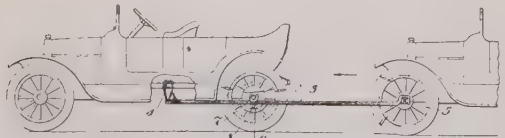
a non-rotating ring pivoted to the lower ends of the stay-rods and encircling the rotary portion of the well, said stay-rods being arranged to maintain the well in a vertical and staunch position against the thrust caused by the pressure of the material on said buckets; and means for turning the rotary well to swing said extension laterally.

1,422,927. LEATHER-SOLE-SOFTENING MACHINE. JAMES LEWIS CLEVINGER, Columbus, Ind. Filed July 19, 1921. Serial No. 485,821. 1 Claim. (Cl. 69—1.)



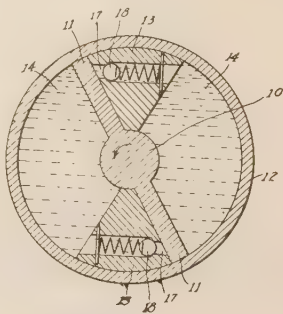
A machine for softening leather comprising a series of rollers of progressively diminishing diameters and two conveyor belts which pass over the top and bottom of the rollers in alternation, whereby a leather article held between said belts and passing successively by the rollers is given gradually increasing angles of flexure.

1,422,928. COMBINED TOW AND PUSH BAR. GEORGE M. COLLING, Carrington, N. Dak. Filed Mar. 9, 1921. Serial No. 450,825. 1 Claim. (Cl. 280—33.2.)



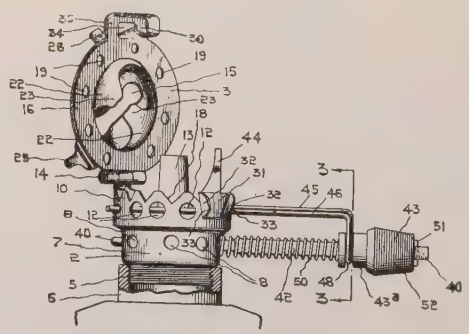
A combined tow and push bar having at one end a hook applicable to one of the axles of a vehicle and having at its other end means for attaching said bar to a second vehicle, and a saddle adjustable on the bar for supporting one of the axles of one of said vehicles.

1,422,929. POWER-TRANSMISSION MECHANISM. RICHARD T. COOKE, Indianapolis, Ind. Filed Nov. 11, 1920. Serial No. 423,314. 5 Claims. (Cl. 64—100.)



5. In a power transmission device, the combination of a driving member, a driven member, a receptacle carried by one of said members, a plurality of balanced vanes carried by the other of said members and arranged within said receptacle, a plurality of balanced dams carried by and within the receptacle and dividing said receptacle into a plurality of compartments, in each of which is arranged a vane, said vanes and dams cooperating to permit a restricted flow impelled by the vanes from one compartment of the chamber to another, means for varying said restricted flow, means for permitting a less-restricted reverse flow from one compartment to another impelled by the vanes, and means for automatically angularly normalizing the driving and driven members.

1,422,930. HYDROCARBON BURNER. CHARLES EDWARD CORADO, Winnipeg, Manitoba, Canada. Filed Aug. 19, 1921. Serial No. 493,529. 12 Claims. (Cl. 67—68.)

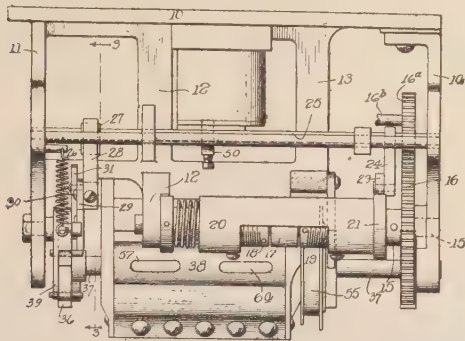


1. In a hydrocarbon burner the combination with a wick tube; of a wick trimming device consisting of a pair of spaced push rods slidably mounted upon the burner on opposite sides of the wick tube, and a member of substantially inverted U form rigidly connected to said push rods and movable in unison therewith, and across the top of the wick tube, that portion of the member which moves across the top of the wick tube being of narrow width for the purpose of preventing the flame of the wick being extinguished by such movement.

1,422,931. DOOR-CONTROLLING DEVICE. HERBERT W. CRANE, Chicago, Ill. Filed Oct. 1, 1919. Serial No. 327,785. 6 Claims. (Cl. 172—152.)

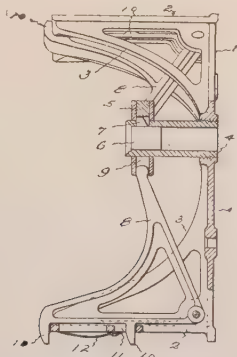
2. In a door controlling device, the combination of a motor, a spring-rotated pole changer adapted to inter-

rupt the supply of current to the motor at a desired limit of movement, and mechanical means operated by the



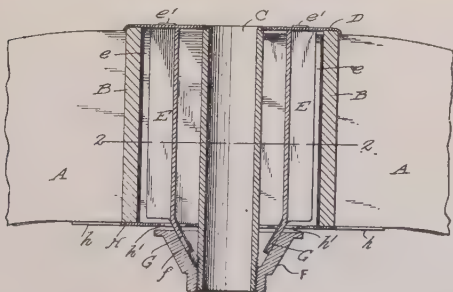
motor for positively shutting off the supply of current to the motor simultaneously with the operation of said pole changer, substantially as described.

1,422,932. SPARE-TIRE CARRIER. ALBERT D. CROSSLEY, Hartford, Conn., assignor of one-half to Reuben T. Bassett, Hartford, Conn. Filed July 1, 1920, Serial No. 393,340. Renewed May 25, 1922. Serial No. 563,679. 5 Claims. (Cl. 224-29.)



1. A tire carrier comprising a frame having outwardly extending legs and forwardly projecting feet, arms pivoted to the legs and having fingers adapted to project beyond the outer surfaces thereof, means for swinging the arms, and a lock for securing said means when the arms are swung to such position that the fingers project beyond the feet.

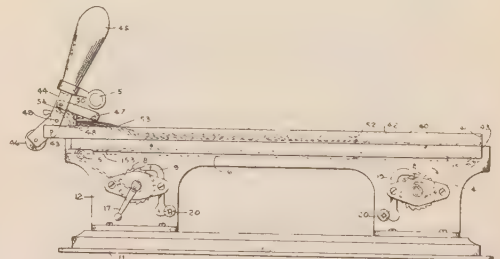
1,422,933. CHAIR BASE. ROBERT K. DAWSON, Guelph, Ontario, Canada. Filed Dec. 22, 1921. Serial No. 524,086. 16 Claims. (Cl. 155-138.)



1. A securing device for chair legs including a central upright member, clamping members movable substantially radially with regard to said central member and

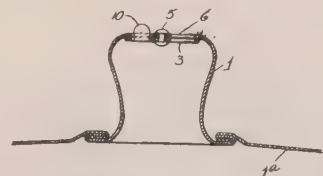
adapted to grip the chair legs, and means engaging said central member and said clamping members for drawing said clamping members into their clamping positions.

1,422,934. DUPLICATOR. THEODORE DANHEISER, New York, and FREDERICK FRANCIS FECHER, Brooklyn, N. Y., assignors to The Beck Duplicator Company, a Corporation of New York. Original application filed Oct. 11, 1917, Serial No. 196,040. Divided and this application filed Nov. 22, 1920. Serial No. 425,885. 8 Claims. (Cl. 101-133.)



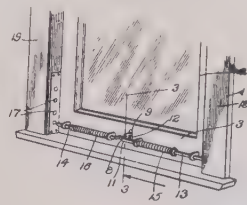
1. An attachment for duplicators adapted to be movably supported thereon and comprising means adapted to support parts of a plurality of sheets of paper or the like and to permit a part of the lower of said sheets to be depressed on the said duplicator and adapted when moved with reference to said duplicator to permit said lower sheet to escape but to retain all the other said sheets; said attachment also comprising means adapted to so depress said paper.

1,422,935. VENTILATING KNOB FOR COOKING VESSELS. MURRAY F. DEAN, St. Louis, Mo. Filed Apr. 18, 1921. Serial No. 462,440. 3 Claims. (Cl. 53-6.)



1. A ventilating knob for cooking vessels comprising a hollow shell adapted to be secured to the cover of the vessel, said shell having a plurality of perforations therein, and a disk rotatably secured to said shell, said disk having perforations therein corresponding to the perforations of said shell, whereby said disk may be turned so that the corresponding perforations of the disk and shell are in alinement, thus providing openings into the vessel or so that the perforations are out of alinement, providing a closed cover for the vessel.

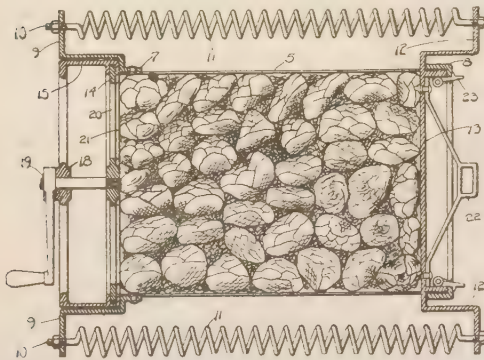
1,422,936. LOCK. ASA G. DELPH and ROBERT C. HEMPHILL, Kansas City, Mo. Filed July 5, 1921. Serial No. 482,373. 4 Claims. (Cl. 292-33.)



2. The combination with a frame having an opening and a movable closer for the same, of a plate on one side of the closer, normally retracted, spring-actuated

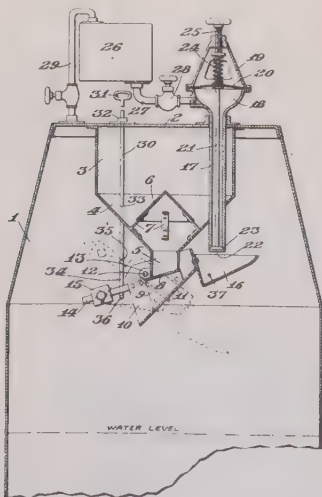
bolts on the other side of the closer, means connected to the plate and extending through the closer for releasing said bolts, and means on the frame for engagement by said bolts.

1,422,937. CABBAGE CUTTER. GEORGE DORCHEFF, alias George Theodore, Cincinnati, Ohio. Filed Oct. 7, 1919. Serial No. 506,042. 1 Claim. (Cl. 146—11.)



A cabbage cutter comprising a cylindrical body, a reciprocally movable non-removable plate within and movable from one end of the body, adapted to be moved toward the opposite end of the body, a cutter plate housing hinged at the opposite end of the body, a removable cutter plate rotatively mounted within the housing and arranged to close the opposite end of the body when the housing is moved to contact the body, means for rotating the cutter plate from its housing enclosed rim, springs extending longitudinally and exteriorly of the body, attached to the first mentioned plate and adapted to move the plate longitudinally of the body, and catches adapted until released to retain the first mentioned plate at the first mentioned end of the body for purposes of filling.

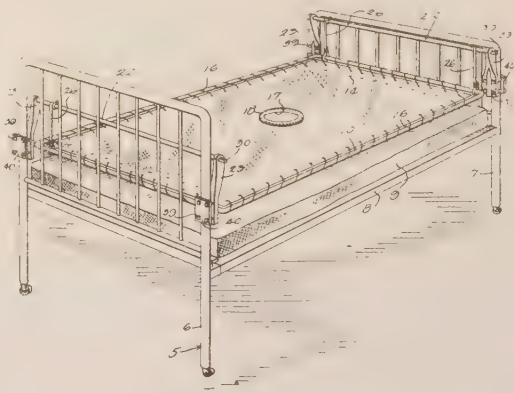
1,422,938. GAS GENERATOR. PARMER DORSEY, Wichita, Kans., assignor to Henderson-Willis Welding and Cutting Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 23, 1918. Serial No. 263,908. 7 Claims. (Cl. 48—43.)



1. In a gas generator of the character described, a tank, a feed hopper therefor, a dumping charge-delivering device cooperating with the outlet of said hopper, said de-

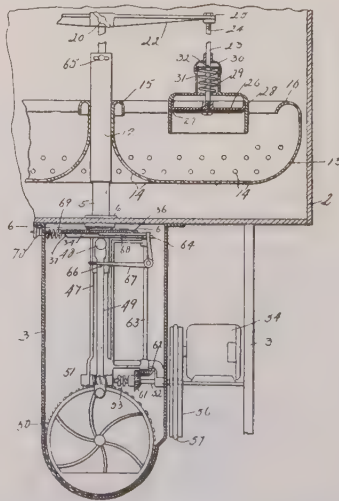
vice having a self-discharging bucket of a filling capacity to overbalance and actuate the device to deliver the charge from the hopper, and automatically operative means, controlled by the pressure of the gas generated in said tank, for supplying a liquid to said bucket, said liquid-supplying means being maintained normally inactive under a predetermined pressure and becoming active only when the pressure decreases.

1,422,939. ATTACHMENT FOR BEDS. EDITH B. DOWN, Watertown, N. Y. Filed Feb. 11, 1922. Serial No. 535,910. 1 Claim. (Cl. 5—45.)



In a bed the combination with brackets having V-shaped attaching portions adapted to engage the corner posts of a bed, of means to securely connect said V-shaped attaching portions to the corner of the bed, the upper portions of said brackets being provided with transverse openings, winch bars rotatably extended through said openings, pins detachably locking said winch bars to said brackets the end portions of said winch bars being squared, a crank adapted for connection with the squared end portions of said winch bars, an auxiliary mattress connected to said winch bars, the upper portions of said brackets being extended angularly to overhang the ends of said mattress.

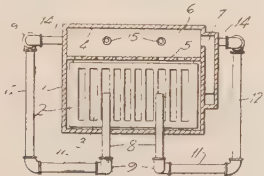
1,422,940. WASHING MACHINE. CHARLES W. DUNMIRE and SCHUYLER C. ENCK, Philadelphia, Pa. Filed Apr. 29, 1920. Serial No. 377,586. 1 Claim. (Cl. 68—19.)



A washing machine comprising a tub having a hole in the bottom thereof, a tubular bearing mounted in said tub

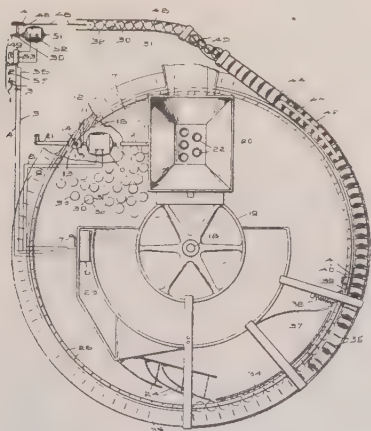
and communicating with said hole, a sleeve surrounding said bearing, a perforated clothes container carried by said sleeve, an axle slidably and rotatably mounted in said bearing, means for connecting the sleeve to the axle for raising the container during the upward stroke of the axle and other means for actuating the first named means to disconnect the sleeve from the axle at a predetermined time to permit the container to fall.

1,422,941. WATER HEATER. GEORG LONRATS EBBENGA, Sibley, Iowa. Filed Sept. 10, 1920. Serial No. 409,363. 1 Claim. (Cl. 126—367.)



In a water heater, a casing, a fire chamber in said casing, an ash pit in said casing, a grate separating said ash pit and fire chamber, a hinged door for said fire chamber, a smoke chamber in said casing a perforated partition dividing said smoke chamber from said fire chamber, a draft chamber connecting said ash pit and smoke chamber, pipe links connecting said fire chamber and smoke chamber, said pipe links extending in pairs outwardly from said fire chamber and substantially encompassing said casing, and a stack for said smoke chamber whereby a forced air circulation is set up in said pipe links.

1,422,942. CONTAINER-ARRANGING APPARATUS. SYLVESTER EBERLY, Toledo, Ohio, assignor to David A. Yoder, Toledo, Ohio. Filed Dec. 18, 1919. Serial No. 345,898. 12 Claims. (Cl. 198—1.)

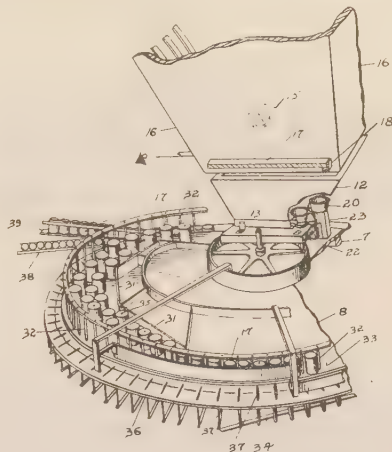


1. A machine for arranging containers as to the filling end, embodying a supply way, selector mechanism shifting containers from said way, a conveyor for receiving said selected containers, driving means for the conveyor and machine, and means for simultaneously stopping the conveyor and machine.

1,422,943. CAN-RIGHTING MACHINE. SYLVESTER EBERLY, Toledo, Ohio, assignor to David A. Yoder, Toledo, Ohio. Filed Sept. 20, 1920. Serial No. 411,456. 7 Claims. (Cl. 198—1.)

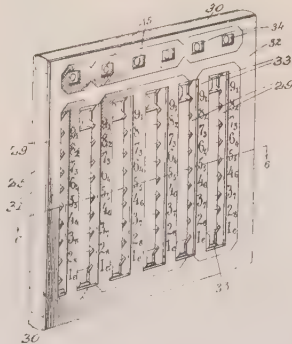
7. Mechanism for arranging cylindrical vessels embodying means for arranging the vessels on-end, selecting means for disposing selected vessels from on-end to on-

side position, a support for the on-side vessels, a way to which the on-side vessels may roll, a way to which the remaining on-end vessels are forced by the mechanism including a swirl for turning these on-end vessels to end the



same direction as the on-side vessels, thereby forming two rolling streams of vessels ended the same direction, and a chute for delivering the swirled vessels into the stream of the other vessels.

1,422,944. CALCULATOR. HARVEY S. EDMONDSON, Spokane, Wash. Filed Jan. 3, 1920. Serial No. 349,242. 4 Claims. (Cl. 235—69.)

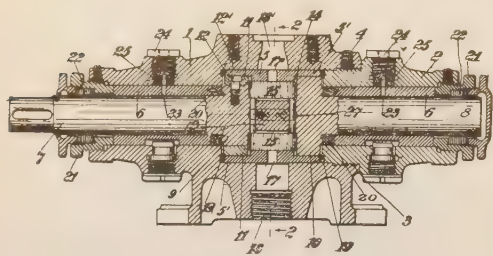


1. In a device of the class described, a housing having sight openings on its face, number members slidably carried by said housing and movable past the sight openings and bearing quantities arranged in numerical order, the housing having slots and bearing a series of quantities arranged in numerical order beside each slot, the said members and said slots being equal in number to said sight openings, the said members having common means presented beneath said slots to provide for movement of the members in opposite directions, the end walls of said slots being adapted to limit the movement of the medium employed for moving the said members in either direction.

1,422,945. MANUFACTURE OF ARSENICAL COMPOUNDS. KARL BASIL EDWARDS, London, England. Original application filed Jan. 26, 1921, Serial No. 440,168. Divided and this application filed Oct. 22, 1921. Serial No. 509,750. 3 Claims. (Cl. 23—13.)

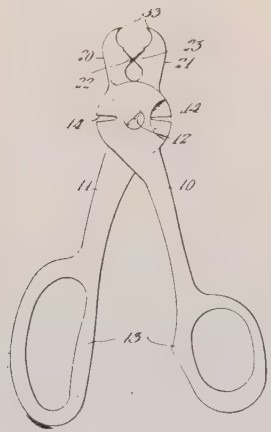
1. A process for the manufacture of salts of the formula R_3AsS_4 , where R is an alkali metal or ammonium, which comprises treating arsenic trisulphide with a solution of an alkali polysulphide in the proportions of one molecular equivalent arsenic trisulphide, three molecular equivalents alkaline monosulphide and one molecular equivalent sulphur.

1,422,946. ROTARY MACHINE. FRITZ EGERSDÖRFER, Charlottenburg, Germany. Filed Sept. 10, 1920. Serial No. 409,502. 10 Claims. (Cl. 103-44.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a machine of the class described, the combination, with a rotary piston having at its ends radially projecting flanges one of which is formed as a ring removably secured to said piston, the said piston being provided between its flanges with substantially radial pockets, and blades mounted for reciprocation in said pockets, of a cylinder enclosing said piston and arranged eccentrically with respect thereto, upon the inner wall of which when the parts are assembled the said blades bear, said cylinder, piston, and blades forming chambers the capacity of which is alternately reduced and increased upon rotation of the piston, and a fluid inlet and outlet for said chambers.

1,422,947. SHOE-BUTTON REMOVER. ORLANDO S. ELLER, Long Beach, Calif. Filed June 24, 1921. Serial No. 480,094. 2 Claims. (Cl. 218-27.)

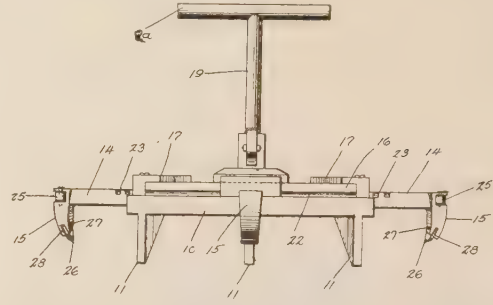


1. A device for removing a shoe button staple from a shoe comprising: two coacting oppositely facing wedges; means for forcing said wedges under a staple from opposite sides of said staple; and means for positively gripping said staple after said wedges have spread it to free its points.

1,422,948. TIRE-RIM TOOL. NATHAN A. EUBANK, Nashville, Tenn. Filed Oct. 30, 1920. Serial No. 420,723. 2 Claims. (Cl. 157-1.)

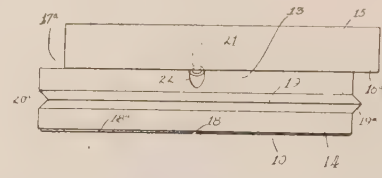
1. A tire-rim tool comprising a base, radially movable arms carried by the base and having rim-engaging surfaces and depending hooks at their outer ends, the hooks

of two adjacent arms having points which are pivoted to swing laterally, a rotatable spirally grooved member



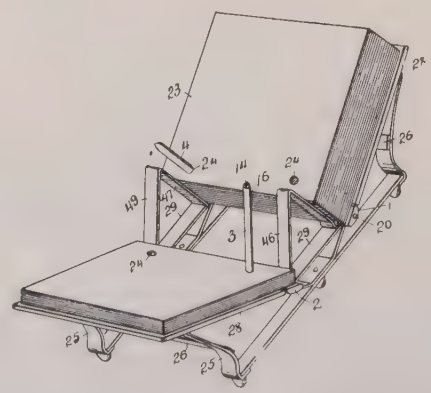
mounted on the base over the arms, said arms having teeth seating in the grooves of said member, and means for rotating the grooved member.

1,422,949. BRICK. JOHN EDWARD EVANS, Chicago, Ill. Filed Nov. 23, 1921. Serial No. 517,159. 4 Claims. (Cl. 72-19.)



1. A brick of the character described comprising a body portion, a flange on the inner edge of a side of said body portion, a recess formed in the inner edge of the opposite side of said body portion adapted to receive the aforementioned flange of a contiguous brick in a structure, a groove formed in the periphery of said body portion on one of said sides, a wedging tongue on the periphery of the opposite side adapted to be received in the aforementioned groove of a contiguous brick in a structure, said flange being provided with an opening to receive a nail or other fastening extending diagonally therethrough in the general direction of the side of said brick remote from said flange.

1,422,950. LOOSE-LEAF BINDER AND STAND THEREFOR. CHARLES R. FARGO and PAUL O. UNGER, Kansas City, Mo., assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed May 3, 1920. Serial No. 378,352. 24 Claims. (Cl. 129-8.)

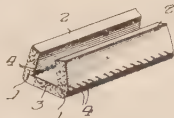


17. In a loose leaf binder, a leaf-clamping member, two posts, one permanently and the other detachably secured

to the clamping member, and a follower leaf-clamping member adapted for sliding movement on said posts, substantially as set forth.

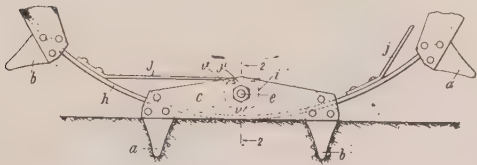
19. In a stand for a loose leaf binder, a frame having means for supporting a leaf-clamping member in a posting position, the frame having positioning means adapted to support a leaf-carrying post detachably mounted in the clamping member, substantially as set forth.

1,422,951. WINDOW-MOUNTING DEVICE. HENRY FAUROT, Jr., Chicago, Ill., assignor to Western Felt Works, Chicago, Ill., a Corporation of West Virginia. Filed Apr. 17, 1922. Serial No. 554,155. 1 Claim. (Cl. 296—44.5.)



A window mounting device, comprising a single normally flat strip of felt formed with parallel longitudinal grooves, the portion of the strip between the grooves being thinner than the portions between the grooves and the lateral edges, the strip being bent along said grooves into channelled form and adapted to have its base inserted in a channelled frame, the side walls of the strip being sewed to the bottom wall so as to reinforce the junctions of said walls and cause the side walls to tend to approach each other.

1,422,952. TRACTOR WHEEL. EMILE FEUILLETTE. Boulogne-sur-Seine, France, assignor to La Societe des Etablissements E. Feuillette, Boulogne-sur-Seine, France. Filed May 26, 1920. Serial No. 384,280. 3 Claims. (Cl. 301—50.)

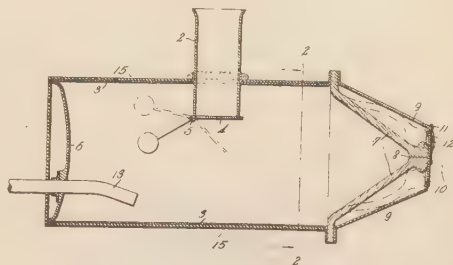


2. A tractor wheel comprising in combination spikes connected in pairs by means of cross bars, said spikes being mounted at the mid point of said cross bars on members whose axes are parallel to the axis of the wheel and rotate in bearings fixed on the rim of the wheel; said members having two diametrically opposed flat portions which engage to hold the pairs of spikes tangential to the rim either in projected or retracted position, pistons perpendicular to the axis of the said members which force by means of a spring placed in a cylindrical casing enclosing the said bearing; and means to limit the oscillations of the pairs of spurs and facilitate their penetration into the earth.

1,422,953. RAILWAY-CAR WATER CLOSET. WILLIAM FRANK, Vancouver, British Columbia, Canada, assignor of one-half to William Taylor, Vancouver, British Columbia, Canada. Filed Nov. 26, 1921. Serial No. 517,860. 3 Claims. (Cl. 4—17.)

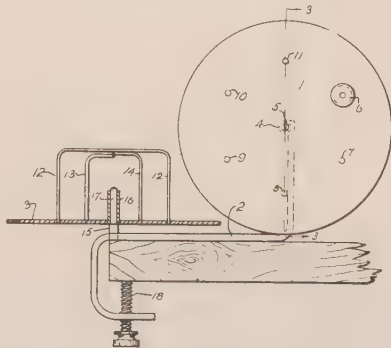
1. The combination with the delivery pipe from the bowl of a water closet, of a container into which the lower end of the delivery pipe projects, a valve opening downward adapted to close the lower end of the delivery pipe, yield-

ing means for holding said valve closed, a valve opening outward at one end of the container, and yielding means



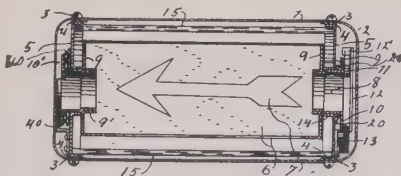
for holding that valve closed, and means for delivering a fluid under pressure into the container.

1,422,954. TRANSFER REEL. PERRY D. FRAZER, Ridgewood, N. J. Filed Nov. 29, 1920. Serial No. 426,901. 10 Claims. (Cl. 242—104.)



4. The take-down transfer reeling device for fish line, etc., comprising a bracket provided with a clamp and with a pivot and shaft, a take-off frame having a bottom plate and connected bearing cooperating with said pivot and wire supporting loops secured to said bottom plate to form guiding supports for a coil of fish line resting on said bottom plate and a reel comprising cooperating detachable plates of substantially the same size as said bottom plate, interposed line supporting pins including a releasable handle pin movably mounted with respect to both of said plates, a bearing sleeve connected to one of said plates and cooperating with said shaft to form a bearing for said reel and means detachably connecting said plates.

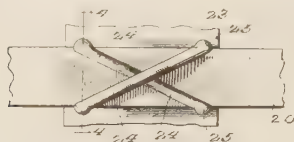
1,422,955. DIRECTION INDICATOR. WILLIAM F. FREEMAN and VRL ITHIEL CILLEY, Grand Rapids, Mich. Filed Oct. 2, 1920. Serial No. 414,297. 6 Claims. (Cl. 116—36.)



1. In combination with a direction indicator having a revoluble symbol cylinder therein; an antifriction roller revolubly mounted upon one end of the cylinder, a cam arm pivotally mounted, at one end, upon the end of the cylinder frame, a cam mounted on the other end of the

arm in position to engage the antifriction roller and revolve the cylinder from first position into second position, and means for connecting the cam arm with the brake rod of an automobile.

- 1,422,956. VEHICLE SPRING. JAMES MILTON GAAR, Richmond, Ind. Filed Jan. 9, 1920. Serial No. 350,259. 2 Claims. (Cl. 267—52.)

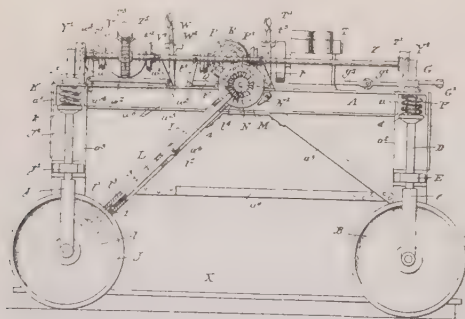


1. A vehicle spring having leaves provided with vertical series of laterally projecting lugs in transversely aligned pairs on opposite sides of its center, and U-bolts having their upper portions crossing one another on top of the spring leaves and having their side portions depending along opposite sides of the spring leaves and engaging the said lugs, as and for the purpose described.

- 1,422,957. INK AND METHOD OF MAKING THE SAME. EDWARD S. GARVEY, Clayton, Mo. Filed May 23, 1921. Serial No. 471,927. 1 Claim. (Cl. 134—37.)

The herein described ink comprising aniline dye commingled with alcohol and shellac in proportions approximately as follows: aniline dye three ounces, alcohol four gallons and shellac six pounds.

- 1,422,958. LUMBER CARRIER. CARL F. GERLINGER, Dallas, Oreg. Filed Aug. 30, 1921. Serial No. 496,799. 8 Claims. (Cl. 212—141.)

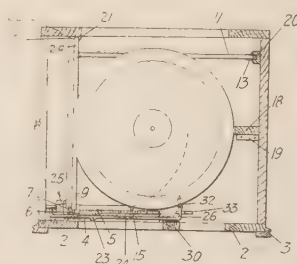


1. A lumber carrier or truck comprising a frame, front and rear wheels on which the frame is supported, lifting shoes, vertically movable rack bars, connecting links directly pivoted to the shoes and to the rack bars, an engine on the frame, and connections between the engine and the rack bars for raising and lowering the shoes.

- 1,422,959. TALKING-MACHINE DISK-RECORD CABINET. HARRY H. GERSTNER, Dayton, Ohio. Filed July 13, 1921. Serial No. 484,451. 5 Claims. (Cl. 211—16.)

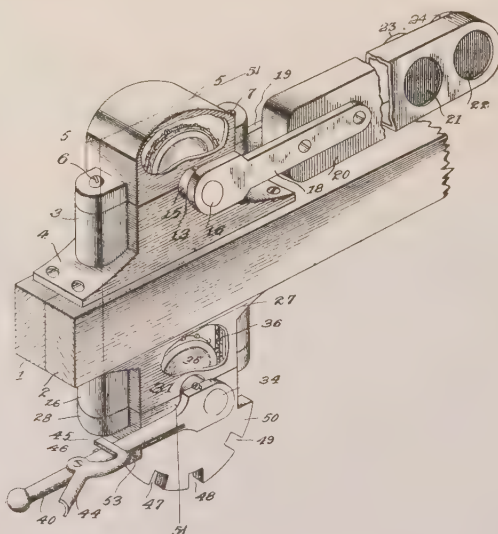
3. In a cabinet of the type described, the combination with a series of vertically disposed partitions secured within the front portion of said cabinet to receive talking-machine disk-records, of a plurality of horizontal slats secured at their front ends to said vertically-disposed partitions, a

grooved member adapted to receive the rear ends of said slats, and a transverse piece secured to the rear wall of



said cabinet, containing a longitudinal groove to receive the grooved member which receives the horizontal slats.

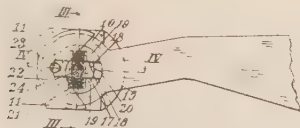
- 1,422,960. AUTOMOBILE INTENTION-SIGNALING DEVICE. EDWARD TINKHAM GIBSON, Brooklyn, N. Y. Filed Mar. 29, 1921. Serial No. 456,640. 1 Claim. (Cl. 116—52.)



The combination with the roof of an automobile of an intention-signaling device comprising a housing-member secured to and projecting upwardly from said roof and adapted to keep rain from entering its interior and having in its bottom an opening disposed in vertical alignment with a co-operating opening in said roof; a signal-arm-turning shaft rotatably mounted in bearings in said housing-member to turn on a horizontal axis lying in parallel relation with the front-to-rear axis of the automobile and having a body-portion disposed within the interior of said housing-member and an end-portion extending outwardly from said housing-member; a shaft rotating member carried by the said body-portion of the shaft; a signaling-arm carried by the said end-portion of the shaft to travel in a vertical plane; a hanger-member having a locking-plate and fixedly supported beneath and in vertical alignment with said housing-member and projecting downwardly from the plane of the surface of the top of the interior of the car; a handle-member carried by said hanger-member and mounted to be manually swung on a horizontal axis lying in parallel relation with the front-to-rear axis of the automobile; a catch-member carried by said handle-member; and means connecting the said handle-member with the said shaft-rotating member whereby

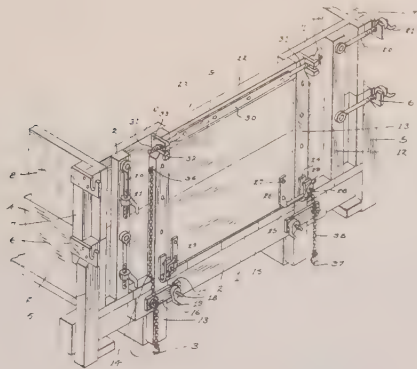
manual operation of the said handle-member will operate to cause rotation of the said signal-arm-turning shaft and resultant movement of the said signaling-arm; said locking-plate having catch-engaging openings at predetermined points in its body, and said catch-member adapted to be manually operated to cause it to engage any one of the said catch-engaging openings in the said locking-plate to temporarily hold the said handle-member in a desired position.

1,422,961. SELF-ADJUSTING BEARING, HARRY GLASS, Jamaica, N. Y. Filed July 25, 1921. Serial No. 487,293. 5 Claims. (Cl. 64—10.)



1. In a device of the kind described the combination with two bearing surfaces formed by the inner and outer faces of a hollow cylinder, of a bearing block providing a rigid surface contacting on said outer face and a plurality of bearing shoes resiliently held in said block in contact with said inner face.

1,422,962. WAGON-GATE CONSTRUCTION. GEORGE W. GOSS and CHARLES E. GOSS, Baltimore, Ohio. Filed July 26, 1920. Serial No. 399,047. 6 Claims. (Cl. 296—51.)

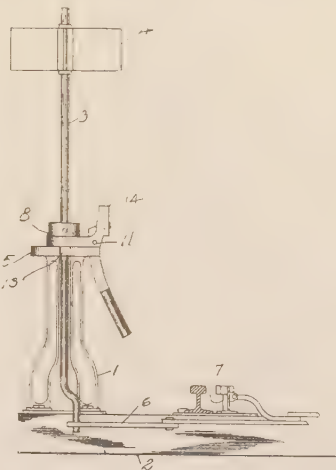


1. In a wagon body, an end gate construction for said body, including a pair of side frames capable of being connected with said body, a door structure normally arranged to cover the space between said side frames, means for pivotally connecting said door structure contiguous to its upper and lower edges with said side frames, whereby the door structure may be selectively operated to swing from either its upper or lower edges, and means for holding the door structure normally against swinging movement.

1,422,963. RAILWAY-SWITCH LOCK. ARTHUR G. GRANT and JOHN J. FANNING, Yardley, Wash.; said Fanning assignor to John V. Grant, Yardley, Wash. Filed Oct. 18, 1921. Serial No. 508,563. 2 Claims. (Cl. 246—414.)

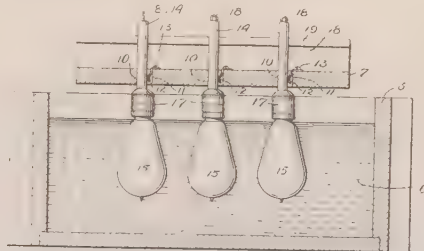
1. The combination with a switch mechanism including a notched segment and a head revoluble with the rotatable shaft, of a slotted lateral arm on the head and a switch lever pivoted therein, a slotted housing on the arm and a

spring pressed bolt therein, and an integral wedge shaped tongue having an orifice and projecting from said lever



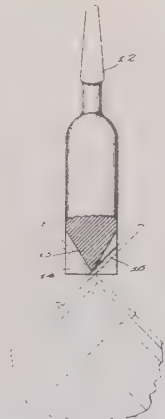
adapted to enter the slotted housing and co-act with said bolt for locking the lever.

1,422,964. DEVICE FOR USE IN COLORING BULBS. HARRY L. GREENBAUM, New York, N. Y. Filed Aug. 25, 1921. Serial No. 495,374. 5 Claims. (Cl. 91—65.)



1. A device for use in coloring bulbs, comprising a stem, a supporting cup carried by said stem and provided with a portion for fitting upon an incandescent bulb terminal, said portion being made of soft rubber.

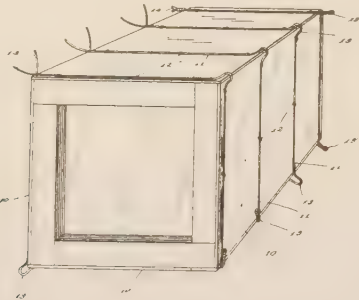
1,422,965. TOOL FOR CLOSING WIREBOUND BOXES. JASON H. GREENSTREET, Indianapolis, Ind. Filed Dec. 26, 1918. Serial No. 268,264. 4 Claims. (Cl. 140—118.)



1. A tool for twisting together crossing wires embracing an article, comprising a rotatable shank trans-

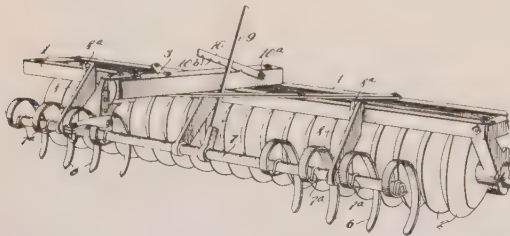
versely slotted across its end to receive a pair of crossing wires by endwise application of the tool thereto, a transverse member being arranged at the base of the slot and formed to lie between the crossing wires to engage them laterally at the crossing point.

1,422,966. PACKAGE BLANK AND PACKAGE. JASON H. GREENSTREET, Indianapolis, Ind. Filed June 4, 1920. Serial No. 386,541. 10 Claims. (Cl. 217—12.)



1. A blank for wirebound packages comprising a series of side-forming sections formed for angular association with adjacent sections, said sections being connected together by binding wires and in such spaced relationship to each other that U-shaped surplus of binding wire is formed at the corners of the associated sections.

1,422,967. TRACTOR-TRACK OBLITERATOR. RAY H. GRISWOLD, Cleveland, and EARL J. POWELL, Berea, Ohio, assignors to The Dunham Company, a Corporation of Ohio. Filed Aug. 22, 1919. Serial No. 319,069. 4 Claims. (Cl. 55—12.)

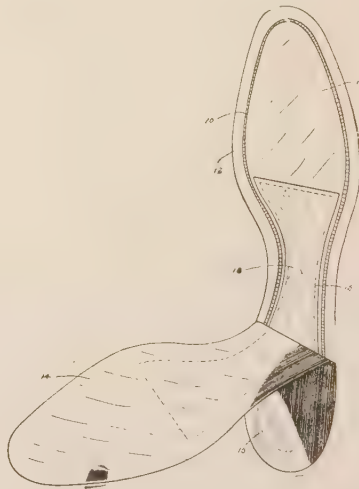


1. In a tractor track eradicator for implements, an implement including a frame and a centrally located draft element, together with earth working elements below said frame, forwardly and downwardly extending bearing brackets detachably secured to said frame and extending in front of said earth working elements, an oscillatory tooth carrying bar in said bearing brackets below said frame and in front of said earth working elements, a plurality of earth working tooth bars adjustably carried by said bar and spaced apart in groups to correspond with the tractor elements of the attached tractor and adapted to traverse and eradicate the tracks thereof in front of said earth working elements of the implement, a hand lever on said tooth carrying bar extending upwardly in front of said implement frame, said hand lever extending at the side of said centrally located draft element and being provided with a lateral projection, and an oscillatory gravity bar on said draft bar provided on its under side with notches adapted to engage said projection of said hand lever in various positions.

1,422,968. BOOT AND SHOE. EDWARD B. HAFERTEPEN, Cincinnati, Ohio. Filed Aug. 23, 1920. Serial No. 405,213. 6 Claims. (Cl. 36—76.)

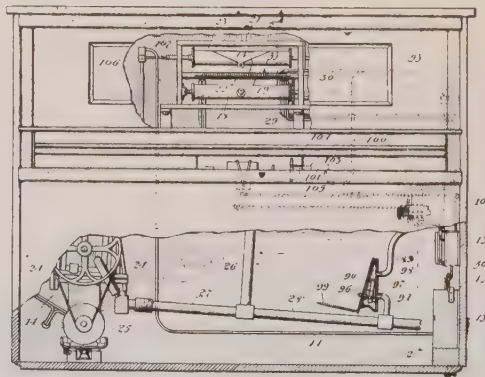
1. A boot or shoe having the inner and outer soles made to conform to the shape of the last, a shank-piece

sewed therebetween and extending from the heel of the shoe to the ball thereof by stitches through and through



said inner and outer soles and shank-piece adapted to bind and hold said shank-piece and inner and outer soles in fixed relation to each other.

1,422,969. EXPRESSION DEVICE FOR AUTOMATIC MUSICAL INSTRUMENTS. JAMES CLARKE HAGEY, Chicago, Ill., assignor of one-half to The Cable Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1918. Serial No. 219,879. 105 Claims. (Cl. 84—36.)

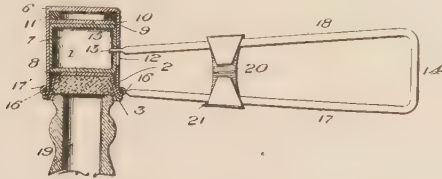


1. An expression-device for an automatic musical instrument, comprising means for mechanically adjusting parts of the musical instrument to limit the movements of the note-sounding mechanism, said means including a regulator.

1,422,970. PORTABLE HAND TOOL FOR CAPPING, SEALING, AND UNSEALING BOTTLES. ORRIN A. HANFORD, Pasadena, Calif. Filed Mar. 26, 1921. Serial No. 455,734. 5 Claims. (Cl. 226—84.)

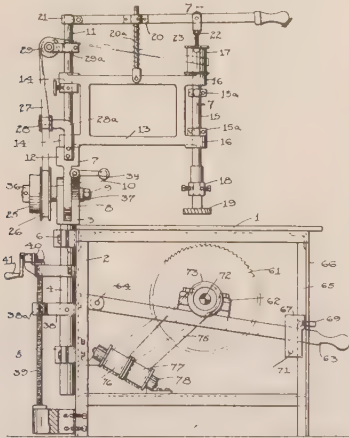
1. A portable hand tool of the character described, comprising a chambered die member provided with a beaded lower end, a slidable member within the die member, a washer plate within said first named member, resilient means adapted to contact with the upper surface

of said washer plate, and a handle member with one end fixedly secured to the beaded portion of the die member



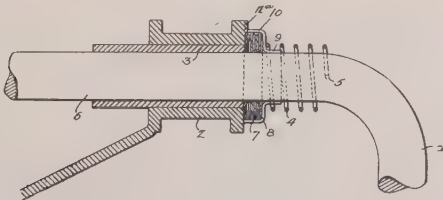
and its other end passing through an opening formed in the body of the said slidable member.

1,422,971. WOODWORKING MACHINE. JOHN HANSON, Worcester, Mass. Filed Apr. 16, 1921. Serial No. 461,863. 6 Claims. (Cl. 144—134.)



1. In a machine of the class described, a table, a bracket provided with a shank vertically adjustable on said table and terminating in a head, a socket turnable on a horizontal pivot pin extending through said head and a shaft extending from said socket upon which is pivotally mounted a tool carrying frame.

1,422,972. DUSTPROOF OIL RING. WILLIAM HENRY, Philadelphia, Pa. Filed Apr. 25, 1918. Serial No. 230,719. 5 Claims. (Cl. 286—30.)

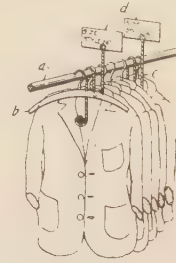


1. The combination with the starting crank of a motor vehicle and the bearing for said crank, of a lubricant impregnated ring mounted on said crank adjacent the bearing; a washer formed to permit of its application to said crank; with a spring for moving the crank longitudinally in the bearing and operative on the washer to cause it to retain the lubricant ring in place.

1,422,973. INDEX-CARD HOLDER. WILLIAM HERTZBERG, Brooklyn, N. Y. Filed Feb. 23, 1922. Serial No. 538,654. 4 Claims. (Cl. 40—11.)

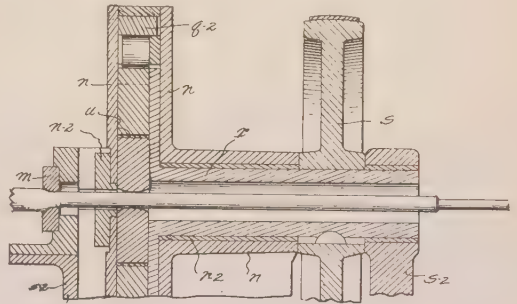
1. A display card holder formed of a single piece of twisted wire, a seat formed adjacent the middle portion

of said wire to embrace a rod for supporting garment hangers, a clip formed integrally with the wire at one



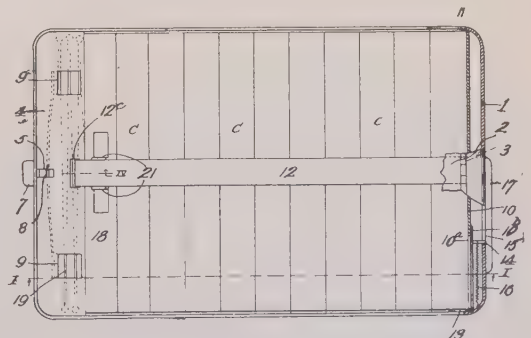
end for holding a card, and a weight formed by coiling said wire at the opposite end for balancing the holder on the rod.

1,422,974. ART AND MECHANISM FOR DRAWING HOLLOW CYLINDRICAL METAL BODIES. CLIFFORD B. HIGGINS, Detroit, Mich., assignor of one-half to Harry A. Higgins, Detroit, Mich. Filed Dec. 27, 1920. Serial No. 433,319. 5 Claims. (Cl. 205—7.)



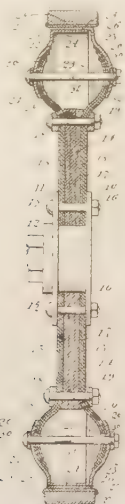
1. In the art of drawing metal tubes over a mandrel, the method of removing the mandrel therefrom, which consists in hammering the tube on the mandrel so as to expand the tube in order that the mandrel may be withdrawn.

1,422,975. CIGARETTE CASE. SIDNEY HOLTZCLAW, Kansas City, Kans. Filed May 10, 1920. Serial No. 380,329. 3 Claims. (Cl. 206—41.)



3. In a cigarette case, a body portion having an inwardly projecting plate at its front edge provided with a pair of downturned lugs, a latch projecting up through said plate, a flat spring bearing against said lugs and said latch, and a hinged cover having an inwardly projecting flange at its free edge for engagement with said latch.

1,422,976. STEEL-CUSHION WHEEL. ADDISON C. HOOF, Chicago, Ill. Filed June 26, 1919. Serial No. 306,772. 14 Claims. (Cl. 152-28.)



3. A cushion wheel comprising in combination, a wheel supporting member, resilient members secured to said support having bowed outer ends, means for maintaining said bowed outer ends under compression, and a wheel tread secured to said last mentioned means.

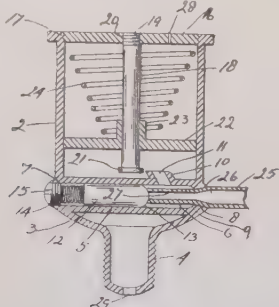
1,422,977. COMPOUND OF LIME AND SULPHUR STABILIZED WITH AN AROMATIC COMPOUND. MATTHEW S. HOPKINS, Reading, Pa. Filed July 8, 1921. Serial No. 483,346. 3 Claims. (Cl. 167-6.)

1. A composition of matter including a calcium polysulphide and a calcium salt of an aromatic sulphonic acid.

2. A composition of matter including a calcium polysulphide and a calcium salt of naphthalene sulphonic acid.

3. A lime-sulphur compound including in its content more than one percentum and less than ten percentum of a calcium salt of an aromatic sulphonic acid.

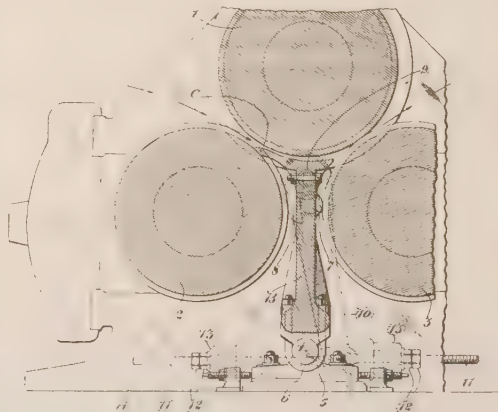
1,422,978. AUTOMATIC FILLER FOR GREASE CUPS. SAMUEL HOUGH, Atco, N. J., assignor of one-fourth to Ruben P. Levick, Berlin, N. J., and one-fourth to Charles J. Richter, Collingswood, N. J. Filed Sept. 22, 1920. Serial No. 411,930. 8 Claims. (Cl. 184-45.)



3. In a device of the character described, a grease cup provided with an interior barrel having a valve chamber therein provided with a tapered inlet opening forming a communication between the exterior of the cup and said valve chamber and further having an outlet opening forming a communication between the valve chamber and the interior of the cup, a spring actuated valve for normally closing said openings, in combination with a grease gun nozzle having a frusto-conical shoulder

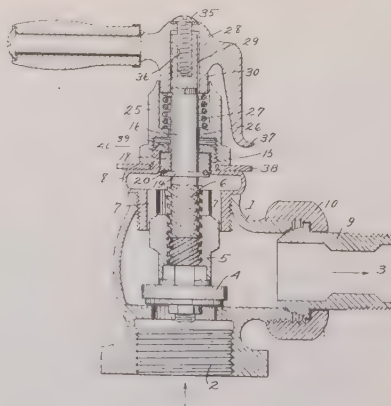
some distance from its end and adapted to register with the conical inlet opening to limit the inward movement of said nozzle having an outlet opening adjacent its end for registration with the outlet opening leading from the valve chamber when said nozzle is inserted therein and during which time the valve will be forced away from the openings by said nozzle.

1,422,979. CANE MILL. HENRY HURTER, St. Louis, Mo., assignor to Fulton Iron Works Company, St. Louis, Mo., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,651. 2 Claims. (Cl. 100-47.)



1. In a cane mill, a housing provided with crushing rolls, a pivotally mounted turnbeam extending across said housing and arranged between two of said rolls, a trash knife extending from the upper portion of said turnbeam and cooperating with one of said rolls, an oscillatory adjusting arm movable in said housing to adjust the pivoted turnbeam, an oscillatory operating shaft extending through said housing and secured at its inner end to said adjusting arm, an operating arm located at the exterior of said housing and secured to said operating shaft, and securing means cooperating with said operating arm to retain said turnbeam and trash knife in the positions to which they are adjusted.

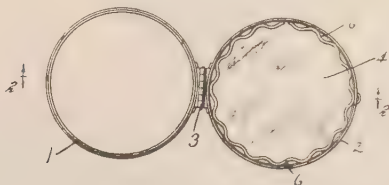
1,422,980. VALVE MECHANISM. FRANK L. HUTCHINSON, Milwaukee, Wis., assignor to Sterling Engineering Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 5, 1919. Serial No. 301,968. 4 Claims. (Cl. 251-47.)



2. In a valve mechanism, the combination with a valve casing and a valve therein, a valve operating stem projecting through the casing and having its inner end operatively connected with the valve, a casing extension having an annular packing member through which the stem passes, an annular projection on the stem adapted

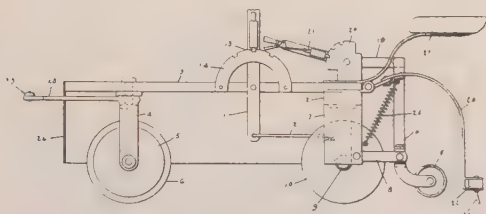
to seat upwardly against said packing, a handle, a spring coiled about the stem with one end supported from the casing extension and the other end bearing against the handle, said stem being socketed in the handle and connected therewith by an adjusting screw passing through the handle and engaged in an axially disposed socket in the stem, whereby the handle is adjustable longitudinally of the stem.

- 1,422,981. VANITY BOX. FRANK S. HYATT, Brooklyn, N. Y. Filed Mar. 16, 1921. Serial No. 452,692. 3 Claims. (Cl. 132—83.)



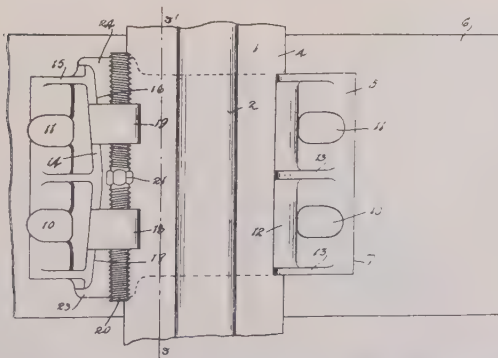
3. In a vanity box, the combination with the box, of a mirror and a corrugated spring wire adapted to press against the inner surface of the side walls of the box by some of its corrugations so as to be retained in frictional engagement therein and to engage by other corrugations upon the outer or visible surface of said mirror to hold the same in place in said box.

- 1,422,982. CULTIVATOR. ROBERT G. ISLEY, Edinburg, Ind. Filed Apr. 6, 1921. Serial No. 458,930. 2 Claims. (Cl. 55—73.)



2. In a cultivator, a frame structure, series of cutting disks, a pair of substantially inverted U-shaped auxiliary frames pivotally suspended from parts of the frame structure, shafts carried by the lower ends of said auxiliary frames upon which said disks are mounted, means for shifting the positions of said disks, and means for raising and lowering the rear end of the frame structure for elevating and lowering said disks.

- 1,422,983. TIE-PLATE FOR RAILS. ERNEST N. JOHNSON, Winnipeg, Manitoba, Canada. Filed July 12, 1921, Serial No. 484,144. Renewed Apr. 15, 1922. Serial No. 553,014. 3 Claims. (Cl. 238—304.)



1. A rail fastening, comprising a base plate, means thereon engageable with one edge of a rail base, an abut-

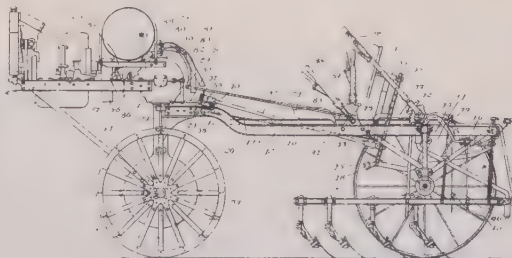
ment on the base plate spaced from the opposite edge of the rail base, a retaining member removable on the base plate for wedging engagement between said abutment and the adjacent edge of the rail base and means connected to said retaining member for moving same in opposite directions.

- 1,422,984. PENCIL. HAROLD R. JOHNSON, Crauston, R. I. Filed June 3, 1921. Serial No. 474,682. 8 Claims. (Cl. 120—18.)



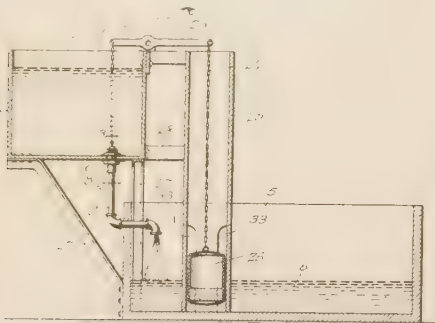
1. In a pencil of the character described, a shell, a tubular guide rigidly supported in the shell concentrically thereof and provided with a slot, a screw rotatably supported in the shell surrounding a portion of the guide, a tubular controller slidably mounted on the guide provided intermediate its length with a longitudinal slot and with a hole, a lead carrier slidably mounted in the guide, a lug on the carrier extending through the slots and into the screw, a plunger slidably in the carrier, and a finger on the plunger extending through the first slot, and hole, and into the screw.

- 1,422,985. POWER CULTIVATOR. EDWARD A. JOHNSTON, Chicago, and CARL W. MOYT, Berwyn, Ill., assignors, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Oct. 25, 1916. Serial No. 127,619. 5 Claims. (Cl. 97—30.)



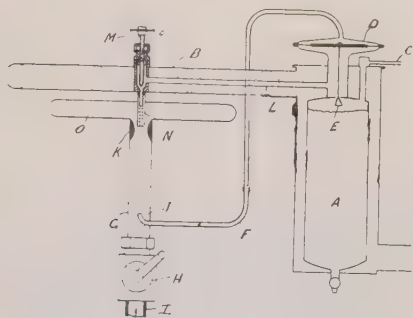
1. In a device of the class described, the combination of a main frame, carrying means and traction means supporting the respective ends thereof, a power plant on the frame for propelling the traction means, an implement adjustably supported on the frame, means for vertically adjusting the implement, means for angling the carrying means, positive steering means for the traction means, for locking the traction steering means against operation, and means controlled by the position of the implement for releasing the locking means.

1,422,986. WATERING TROUGH. ROBERT JUDI, Gifford, Ill. Filed June 11, 1919. Serial No. 303,333. 1 Claim. (Cl. 119—80.)



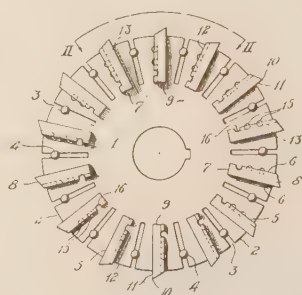
A self-contained unitary structure of the character described comprising a watering trough; a water reservoir located entirely above the trough and supported thereon; a pipe passing into the reservoir arranged to discharge water into the trough; said pipe being arranged so that water will not remain therein; a valve normally closing the upper end of said pipe; a hollow rectangular float guide structure extending from the bottom of the trough to the top of the reservoir having lateral openings through its vertical walls near its bottom end; a round, closed, cylindrical float within said guide; a lever pivoted to a proximate vertical wall of said reservoir having its outer end extending directly over the float and its inner end extending directly over the valve; a chain connecting the outer end of the lever to the float and a chain connecting the inner end of the lever to the valve whereby a straight vertical pull is made on each end of the lever in the operation of the device.

1,422,987. MEANS FOR CONTROLLING THE SUPPLY OF COMBUSTIBLE MIXTURE TO INTERNAL-COMBUSTION ENGINES. GEORGE KEITH and WILFRED AMBROSE WHATMOUGH, London, England. Filed May 3, 1918. Serial No. 232,421. 7 Claims. (Cl. 48—180.)



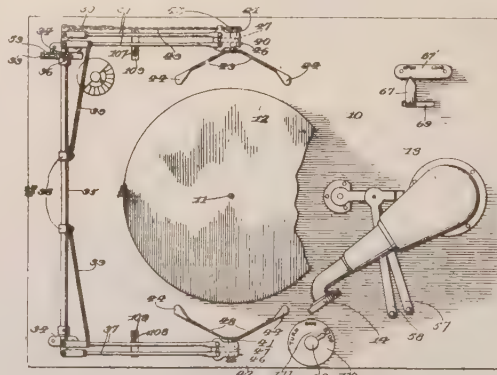
1. In combination, an induction pipe through which a mixture of fuel and air is sucked to an internal combustion engine, a passage for exhaust gases, a vaporizer in said passage, a tubular connection between said vaporizer and said induction pipe, said tubular connection extending through said exhaust passage, a valve serving to control communication between said vaporizer and said tubular connection, an obturating member for regulating delivery of vapor from said tubular connection to said induction pipe, a chamber between and in communication with said vaporizer and said induction pipe, and an automatically operating governor member movable in said chamber, said governor member being operatively connected to said valve and being controlled by the pressure in said induction pipe.

1,422,988. CUTTING TOOL. RAYMUND KIENZL, Cleveland, Ohio. Filed Sept. 14, 1920. Serial No. 410,317. 13 Claims. (Cl. 29—105.)



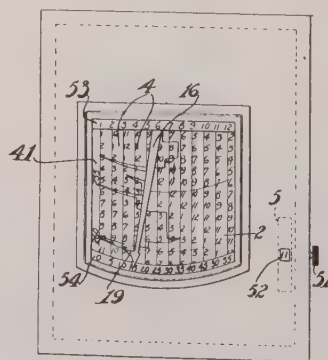
1. A cutting tool comprising a head and a blade mounted for adjustment movement in two distinct directions relatively thereto, and means for securing said blade against movement in one direction and further means for securing against movement in the other direction.

1,422,989. RECORD TURNER FOR PHONOGRAPHS. GLENN R. KNICK, Troy, Ohio. Filed Feb. 7, 1922. Serial No. 534,747. 8 Claims. (Cl. 274—1.)



1. A phonograph, including a turntable, means for driving the turntable, and means operated by the driving means for lifting, reversing, and replacing a record.

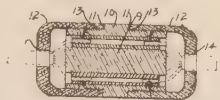
1,422,990. RECORDING SPEEDOMETER. MATT WILLIAM KOSKI, Cosmopolis, Wash. Filed Aug. 15, 1921. Serial No. 492,313. 4 Claims. (Cl. 234—31.)



1. In a recording speedometer, the combination of a movable sheet and a transversely movable pointer, said sheet having thereon a plurality of individual trans-

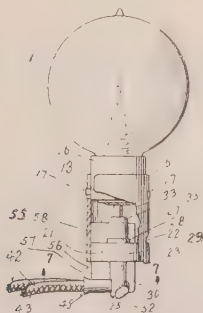
versely-spaced lines of figures indicating distances traveled, the several lines having their zero points positioned differently from all other lines, longitudinally of the sheet.

- 1,422,991. COUPLING. LOUIS W. KRUSE, San Jose, Calif. Filed Jan. 9, 1920. Serial No. 350,379. 1 Claim. (Cl. 173—324.)



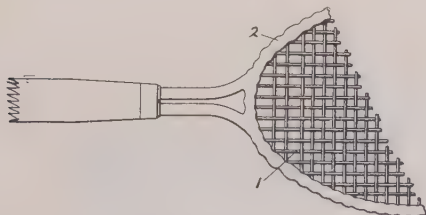
A coupling comprising a cylindrical body portion of insulating material provided with oppositely directed shoulders, and a cap member of insulating material adapted to engage each shoulder and provided with an orifice in the end thereof to permit the passage of wires there-through, said body portion having a plurality of holes formed longitudinally therein and concentric to the axis thereof, a tube of electricity conducting material positioned in each hole, and a screw operatively positioned with relation to each end of each tube and adapted to engage the end of a wire inserted therein.

- 1,422,992. ELECTRIC CONNECTOR. EUGENE A. KUEN, Cincinnati, Ohio, assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 24, 1920. Serial No. 383,908. 3 Claims. (Cl. 173—328.)



1. In an electric connector, the combination of an insulating body, a pair of electric terminals positioned thereby, and a substantially U-shaped insulating strip, said insulating body provided with a slot, the base of said strip located in said slot, and the limbs of said strip extending beyond the respective ends of said insulating body so as to be located between said electric terminals.

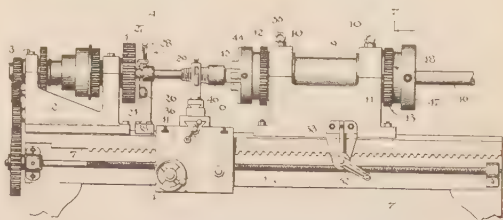
- 1,422,993. ELASTIC METAL STRINGING, AND THE METHOD OF MAKING THE SAME. WILLIAM A. LARNED, Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 13, 1922. Serial No. 536,135. 2 Claims. (Cl. 153—32.)



1. An elastic metal-stringing comprising a wire which has first been wound to form a helix of a number of

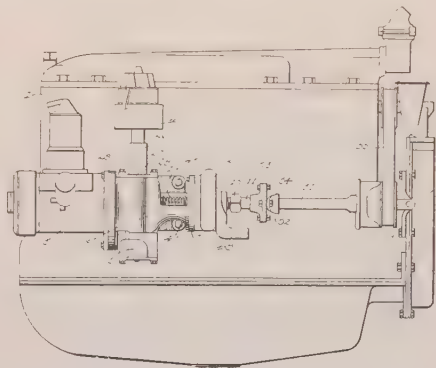
coils per inch, and thereafter stretched in the direction of the axis of the latter, to reduce the number of its coils per inch to give the degree of stiffness, weight and elasticity required of it for the use to which it is put.

- 1,422,994. DEMOUNTABLE HEADSTOCK FOR LATHES. ARTHUR LEE LIGON, Killeen, Tex. Filed May 3, 1920. Serial No. 378,620. 9 Claims. (Cl. 82—28.)



1. An attachment for common lathes enabling turning work longer than the lathe bed, comprising a hollow head stock in substitution of the usual tail stock and center rest, drive means for said head stock in connection with the lathe spindle, and means embodied in said drive means compensating for differences in location of the latter and of the head stock.

- 1,422,995. UNIT ASSEMBLAGE OF MOTOR ADJUNCTS. VINCENT LINK, Detroit, Mich., assignor to The Studebaker Corporation, a Corporation of New Jersey. Filed Feb. 14, 1920. Serial No. 358,706. 18 Claims. (Cl. 123—195.)

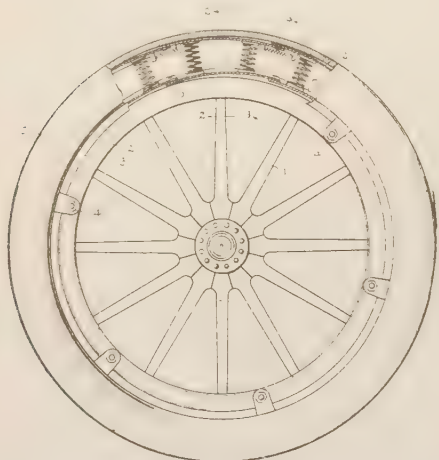


1. Motor assemblage of the character described embodying a supporting element cooperable with a motor and provided with a chamber adapted to contain a lubricant, a plurality of motor adjuncts supported on said element, and driving gears for at least one of said adjuncts positioned within the lubricant chamber, said supporting element being independent of the crank case of the motor and removable from the motor without necessitating the dismantling of any part of the crank case.

- 1,422,996. RESILIENT TIRE. STEVENS P. LONG, Birmingham, Ala. Filed Apr. 8, 1922. Serial No. 550,905. 4 Claims. (Cl. 152—8.)

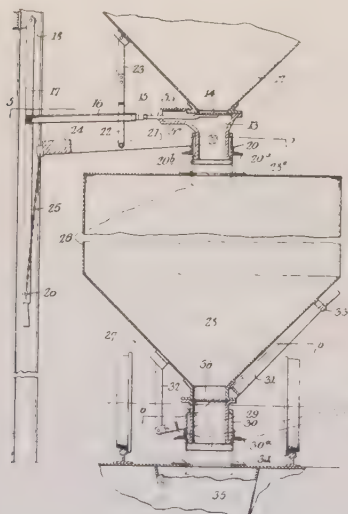
4. A resilient filler for tire casings, comprising a series of spring sections flexibly and yieldingly connected, each section comprising arcuate inner and outer plates which are transversely curved to conform to the inner contour of a tire casing, compression springs serving to connect

said plates near each end of a section, spring abutment lugs at the ends of the outer plate, coil springs mounted



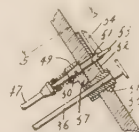
in these abutments and adapted to engage opposed abutments of adjacent sections, and circumferentially yieldable joint means connecting said sections.

1,422,997. APPARATUS FOR HANDLING COMMUNUTED MATERIAL. ALEXANDER GRANT MCGREGOR, Warren, Ariz. Filed June 21, 1920. Serial No. 390,466. 8 Claims. (Cl. 214—18.)



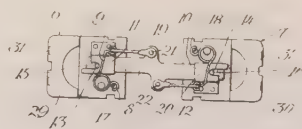
1. In a calcine handling apparatus, the combination with a calcine receptacle having an outlet part, of a sliding sleeve mounted on said outlet part and having an exterior horizontal flange, a calcine car provided with a receptacle having a charging opening of approximately the diameter of said sleeve and which opening may be brought beneath said receptacle outlet part, and means for normally holding said sleeve in a lifted position but permitting it to be lowered into contact with said car receptacle, said means comprising a lever connected with said sleeve, a link supported from said calcine receptacle, and means for holding down the outer end of said lever.

1,422,998. PRIMING AND DECARBONIZING DEVICE FOR INTERNAL-COMBUSTION ENGINES. FRANK D. MALTBY, Battle Creek, Mich. Filed Oct. 10, 1917. Serial No. 195,713. 5 Claims. (Cl. 137—139.)



1. In a structure of the class described, the combination with a support member of a valve casing provided with a delivery port and air and water inlet ports, a valve in said casing adapted to connect either said air or water inlet port with said delivery port or to close said delivery port, said valve casing being arranged on one side of said support member and having a bracket extension with a threaded opening therein, a face plate arranged on the other side of said support member, said valve having a stem arranged through said support and face plate and provided with an index member, said face plate having indicia with which said index is associated, and a clamping member arranged through said face plate and support and threaded into said opening in said valve casing whereby said face plate and valve casing are secured upon said support.

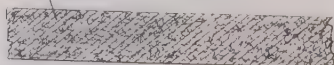
1,422,999. BELT AND THE LIKE. KARL MATHEUS, Chicago, Ill. Filed Aug. 29, 1921. Serial No. 496,295. 5 Claims. (Cl. 267—69.)



1. As a new article of manufacture, a contractile device for belts and the like, comprising in combination a pair of end plates each having its end portion offset substantially the thickness of belt material, belt sections set into said offset portions, means for securing each offset portion to the corresponding belt section, guide blocks on the end plates having longitudinally extending guide passages, a slide plate having its end portions working within said guide blocks, pins on said slide plate, limiting its movement in the extension direction, a coil spring on each end plate having one end connected to such end plate, links joining the free ends of said springs with the central portion of the slide plate, and suitable housings secured to both end plates and covering over and protecting the springs, links and slide plate, substantially as described.

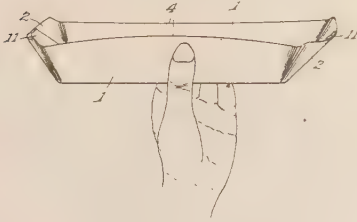
1,423,000. ASBESTOS-CEMENT PRODUCT AND METHOD OF FORMING THE SAME. RICHARD V. MATTISON, Ambler, Pa., assignor to Asbestos Shingle, Slate & Sheathing Company, a Corporation of Pennsylvania. Filed July 6, 1921. Serial No. 482,812. 11 Claims. (Cl. 25—155.)

(HYDRAULIC CEMENT)
(ASBESTOS FIBRE)
(WATER)
(OIL) } SUBJECTED TO PRESSURE



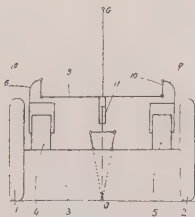
1. A cement composition comprising a homogeneous mixture of oil and asbestos in finely divided condition, water and cement, the same having been subjected to pressure before the cement is set.

1,423,001. PAPER DISH. ELMER T. MAXWELL, Wheeling, W. Va. Filed Jan. 19, 1922. Serial No. 530,322. 2 Claims. (Cl. 229—31.)



1. A paper dish formed of a blank having the form of a rectangle with its corners cut away on relatively short diagonal lines, the sides and ends of the blank being turned upward on lines defining a rectangular bottom, each of said ends being formed by the production of two external end folds, a centrally disposed internal member and intermediate gussets, said folds having their confronting edges inclined and extending into approximate meeting relation adjacent to the upper edges of said ends, said gussets being defined by fold lines which, in the blank, diverge in opposite directions from the ends of the bottom-defining side lines, the relationship between the fold lines and the dimensions of the end folds being such that the blank when folded into dish form produces a dish having ends higher than its sides which relationship between the ends and sides is preserved when the sides are moved to a vertical position.

1,423,002. STABILIZING MEANS FOR SUSPENDED VEHICLES. HENRI MERCIER, Paris, France. Filed Aug. 1, 1921. Serial No. 489,017. 2 Claims. (Cl. 230—112.)

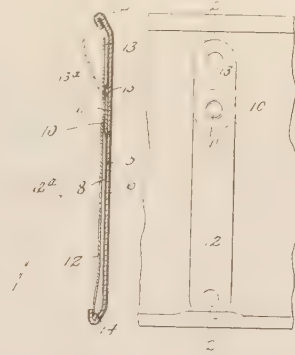


1. In a stabilizing device for vehicles, the combination with the main suspension devices of said vehicle, of auxiliary laterally movable suspension devices interposed between said main suspension devices and the body of the vehicle, a rigid member extending downwardly from the vehicle body intermediate the lateral suspensions, a laterally movable structure swingable about the lowermost transverse center of the vehicle and means telescopically connecting said structure with said rigid member.

1,423,003. DISPLAY PANEL. WARREN R. MINNICK, Reading, Pa. Filed Jan. 12, 1921. Serial No. 436,686. 1 Claim. (Cl. 40—146.)

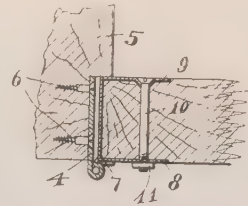
A display panel comprising a metallic backing sheet and a secondary backing sheet marginally flanged together, a

metal disc interposed between said backing sheets, an aperture in said secondary backing sheet exposing part of



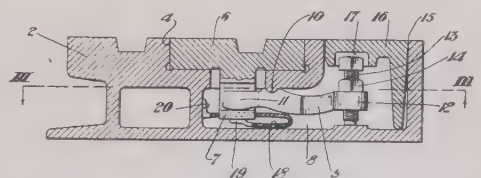
said disc, and a metallic supporting strip secured to said disc by a spot weld through said backing aperture.

1,423,004. HINGE. JOHN R. MOODY, Los Angeles, Calif. Filed Oct. 25, 1920. Serial No. 419,289. 2 Claims. (Cl. 16—135.)



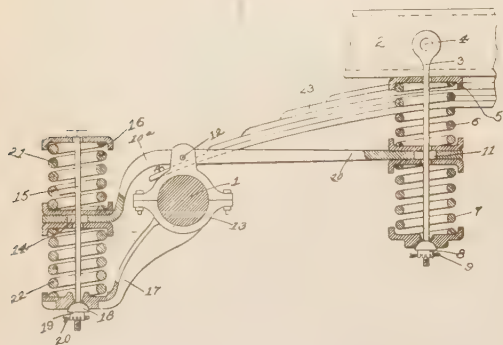
1. In a hinge, one member having means to be secured to a frame; a second member of U-shaped cross section having one shank to reach over a sash from the inside and having another shank to reach over the same sash from the outside, both shanks having perforations one hole in one shank coming into alignment with a hole in the other shank, the perforation in the outer shank being provided with threads and engaging means inserted from the inside to freely pass with its front portion through the perforations in the inner shank and to firmly engage with the threads in the outer shank to allow a drawing of the outer shank to the sash from the inside.

1,423,005. RAILWAY SWITCH. JOHN T. MOORE, Atlanta, Ga. Filed May 18, 1922. Serial No. 561,821. 8 Claims. (Cl. 246—443.)



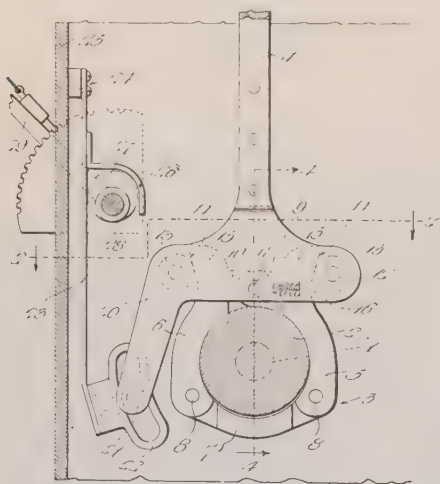
2. A switch comprising a body portion, a movable tongue mounted on said body portion, and a metallic bonding member secured to said tongue and to said body portion to form an electrical bond between said tongue and said body.

1,423,006. SHOCK ABSORBER. HARRY B. MORGAN, St. Louis, Mo. Filed June 16, 1921. Serial No. 478,107. 3 Claims. (Cl. 267—20.)



1. A spring supporting device for automobiles comprising an equalizing lever designed to be fulcrumed on the axle to one side of its center, relatively heavy springs above and below the short end of said lever, a bracket carried by the axle and co-operating with one of said springs, relatively light springs above and below the long end of said lever and a bearing for one of said springs, which bearing is relatively fixed with relation to the chassis.

1,423,007. INTERMITTENT-GRIP DEVICE. SAMUEL STEPHEN MORTON, Harrisburg, Pa. Filed Sept. 25, 1920. Serial No. 412,739. 9 Claims. (Cl. 74—53.)

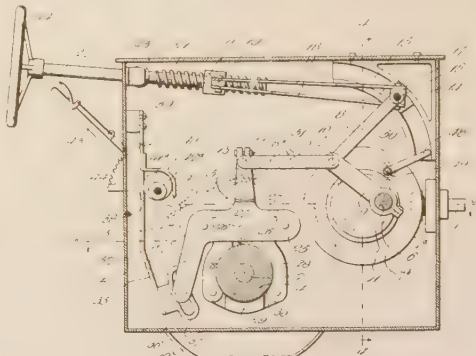


1. In an intermittent grip device, a drum, a flexible band surrounding said drum, a band-contracting lever adapted to travel bodily along an arcuate path concentric with said drum, and means for positively canting said lever, and band relatively before any travel of said lever along said arcuate path, whereby to initially contract said band.

1,423,008. TRANSMISSION MECHANISM. SAMUEL STEPHEN MORTON, Harrisburg, Pa. Filed Sept. 25, 1920. Serial No. 412,740. 19 Claims. (Cl. 180—17.)

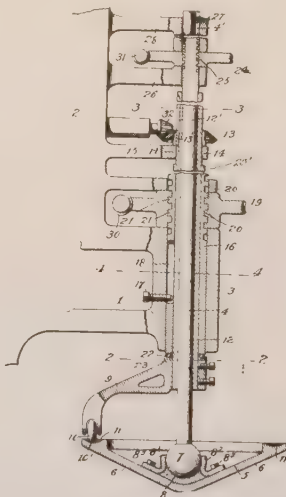
1. In combination, two driving units adapted for positive anti-slipping connection with right and left-hand traction members, each unit being of positive-drive anti-slipping nature throughout and being adjustable for different speeds without pause in their positive anti-slip-

ping driving; and limitaneously movable setting means operable by a single master control for setting said units



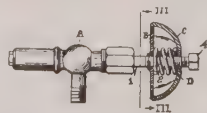
at a single operation to simultaneously accelerate one unit and decrease the speed of the other unit.

1,423,009. MECHANICAL BATTER. CHARLES H. MUCKENHIRN, Detroit, Mich. Filed June 26, 1919, Serial No. 306,853. Renewed Dec. 20, 1921. Serial No. 523,772. 18 Claims. (Cl. 25—21.)



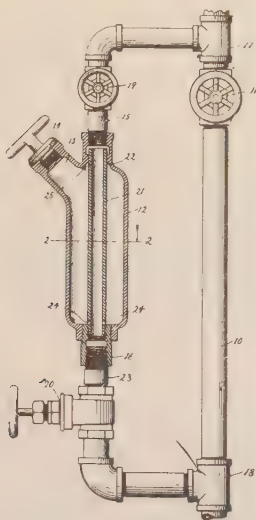
1. An apparatus of the class described, including a clay pressing and forming member, and means for oscillating said member progressively in different vertical planes.

1,423,010. SAFETY GAS VALVE. ELEANOR H. NEVICZKY, McKeesport, Pa. Filed Sept. 12, 1921. Serial No. 499,981. 3 Claims. (Cl. 251—45.)



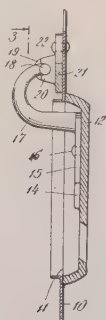
3. In combination with a gas valve having a protruding stem, a hand wheel free to rotate on and slide longitudinally of said stem, said hand wheel being concaved toward said disk and having a fluted perimeter and said disk being of proper diameter and contour to fit in said hand wheel and interlock therewith, and a helical spring coiled about said stem between said disk and said hand wheel whereby said hand wheel is normally held out of engagement with said disk but by pushing said hand wheel along said stem, compressing said spring, said hand wheel may be interlocked with said disk and the valve may be operated by turning said hand wheel.

1,423,011. LUBRICATOR. LONNIE EDWARD OSBORNE, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Mar. 4, 1920, Serial No. 363,322. Renewed May 31, 1922. Serial No. 565,015. 3 Claims. (Cl. 184—55.)



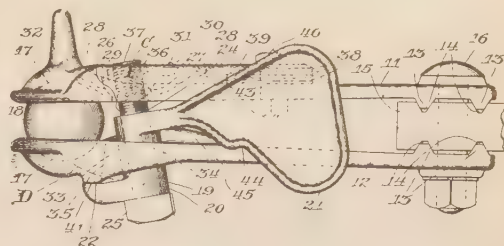
3. A lubricator comprising, in combination, a nipple screw threaded both interiorly and exteriorly at one end, a section of pipe engaged with said interior screw threads, a cylinder having restricted extremities provided with internal screw threads, one of said extremities engaged with the exterior threads of said nipple, the other extremity forming a sliding fit upon and extending beyond the free end of said pipe section, said section having ports opening into said cylinder adjacent each extremity.

1,423,012. HINGE FOR STOVES AND RANGES. STANLEY W. PALMER, Beaver Dam, Wis., assignor to Silas McClure, Beaver Dam, Wis. Filed Dec. 14, 1920. Serial No. 430,662. 8 Claims. (Cl. 16—128.)



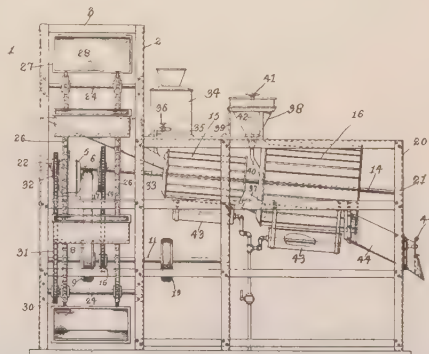
7. A range having a substantially vertical wall provided with a door opening, a door for closing the opening, and a pivotal connection between the door and the wall, said connection being at the top of the door, and offset inwardly from the plane of the door, whereby the door will be biased by gravity to swing inwardly beyond the vertical to cause the door to be pressed closely against the wall about the door opening when closed.

1,423,013. AUTOMATIC MOWER PITMAN. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Dec. 21, 1918. Serial No. 267,837. 43 Claims. (Cl. 287—89.)



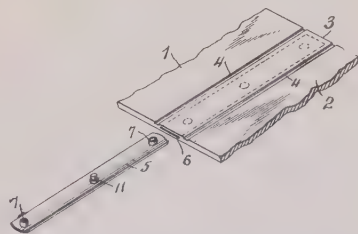
1. In a pitman having straps one of which is resilient, means including a member having rotary movement on its axis and oscillatory movement about one end for forcing said resilient strap toward the other strap when in clamping position.

1,423,014. NUT-SALTING MACHINE. MARIO PERUZZI, Wilkes-Barre, Pa. Filed Jan. 31, 1921. Serial No. 441,378. 7 Claims. (Cl. 107—43.)



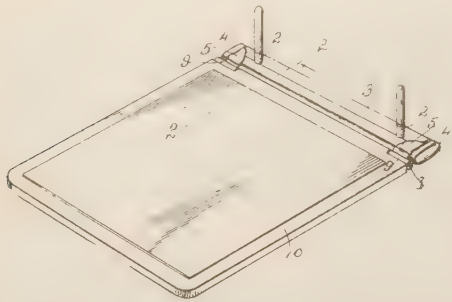
7. A machine of the class described comprising inclined communicating drums mounted for rotation, means for conveying the material to be coated into said drums, means for supplying a coating material to one of said drums and means for supplying a granular material to the other of said drums.

1,423,015. TEMPORARY BINDER. FREDERICK D. PITT and GEORGE W. NEWMAN, Kansas City, Mo., assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed July 10, 1919. Serial No. 309,923. 8 Claims. (Cl. 129—1.)



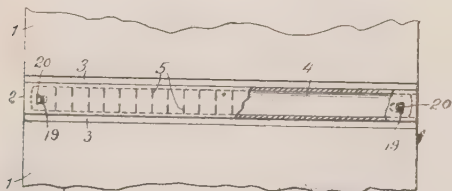
3. In a book cover attaching means, a single ply cover sheet having a pocket between the inner and outer sides thereof, said sides extending continuously from one side edge of the pocket to the other side edge thereof.

1,423,016. BINDER. WILLIAM P. PITT, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Mar. 28, 1921. Serial No. 456,174. 8 Claims. (Cl. 129—12.)



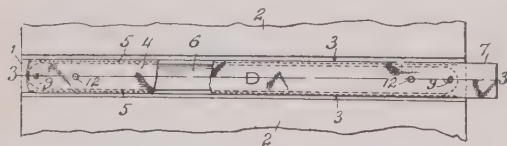
1. In a binder, a binder member comprising a body, and two end members mounted respectively on the ends of the body and having each a lip formed into a barrel adapted to receive a pin, substantially as set forth.

1,423,017. BOOK-COVER-ATTACHING MEANS. FREDERICK D. PITT, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Sept. 19, 1921. Serial No. 501,606. 12 Claims. (Cl. 129—1.)



1. The method of forming a pocket for receiving a back plate in the back of a book, consisting in cutting a longitudinal row of transverse slits in the back, and horizontally severing the material from slit to slit, substantially as set forth.

1,423,018. COVER-ATTACHING MEANS FOR BOOKS. WILLIAM P. PITT, Kansas City, Mo., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Sept. 19, 1921. Serial No. 501,527. 4 Claims. (Cl. 129—24.)

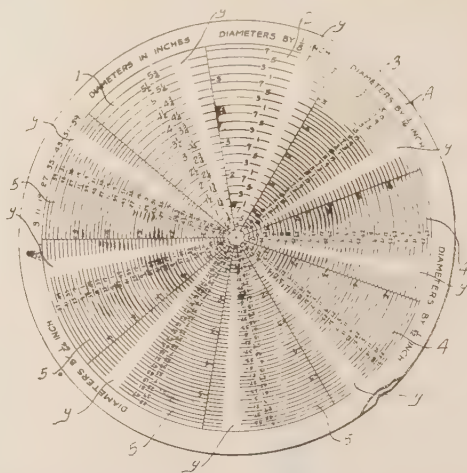


1. In a loose leaf book of the kind described, a back of a book, and a strip of flexible material sewed adjacent to its longitudinal edges to the back and adapted to form a pocket for receiving a back plate, and having free ends adapted to underlap the ends of the back plate, substantially as set forth.

1,423,019. COMPASS SCALE. WEBSTER V. POGUE, Mount Vernon, N. Y. Filed May 27, 1920. Serial No. 384,732. 4 Claims. (Cl. 33—1.)

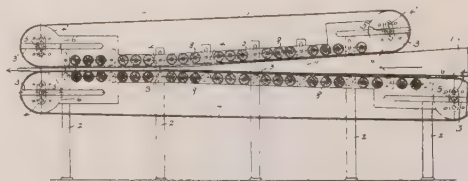
1. A compass scale, comprising a member provided with a plurality of segmental sections having regularly spaced

arcs that are parts of circles of different diameters, the arcs of each section corresponding to a diameter of some common fraction of an inch or other standard unit of



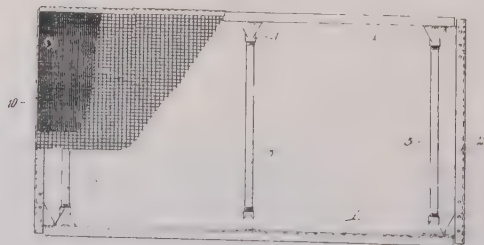
linear measurement and the arcs in each segmental section representing circles of different diameters from those represented by the arcs of the adjoining sections.

1,423,020. MOLDING MACHINE. JAMES T. POKORNY, Cedar Bayou, Tex., assignor of one-half to A. T. Edgington, Port Arthur, Tex. Filed Sept. 18, 1920. Serial No. 411,130. 2 Claims. (Cl. 25—21.)



1. A molding machine including a fixed frame-work, an adjustable frame-work arranged above the fixed frame-work, retaining plates secured to and spaced from the fixed frame-work on each side and extending up on each side of the movable frame-work, wedge-shaped space blocks fixed to the side members of the respective frame-works, between them and the retaining plates, endless belts arranged to travel in said respective frame-works between which the material to be moulded passes, the edges of said belts passing along adjacent the apexes of said space blocks and being freed of excess material thereby.

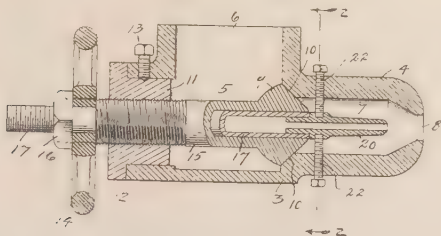
1,423,021. SCREENING APPARATUS. MORLEY PUNSHON REYNOLDS, Cleveland, Ohio, assignor to The W. S. Tyler Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 22, 1919. Serial No. 325,429. 2 Claims. (Cl. 83—56.)



1. In mechanism of the character described, the combination of spaced pairs of superimposed strips rebent

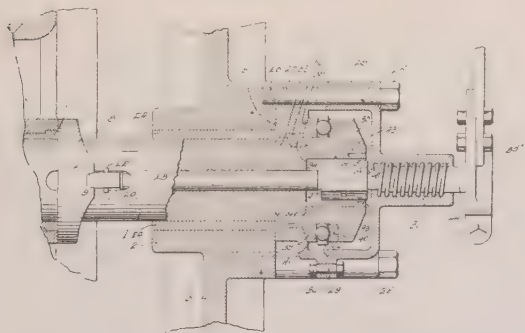
laterally upon themselves throughout their length, woven wire screens mounted upon the corresponding strips of the pairs and having their overlying edge portions clamped beneath such rebent portions of said strips and means engaging said strips for moving the same with respect to each other to tension said two screens equally and together.

- 1,423,022. OIL BURNER. AUSTIN A. RILEY, Indianapolis, Ind., assignor of two-thirds to Central States Bridge Company, Indianapolis, Ind., a Corporation of Indiana. Filed May 16, 1921. Serial No. 469,755. 5 Claims. (Cl. 158—76.)



4. The combination, with a valve-body having an air-inlet, a valve-seat and a nozzle outlet, of an oil-supply pipe entering the body, said nozzle supporting the oil-supply pipe centrally of the valve seat, means for centering the nozzle with the valve seat, a valve slidably mounted on the oil-supply pipe, and means extending outside of the body for adjusting the valve in its seat.

- 1,423,023. CLUTCH-OPERATING MECHANISM. EUGENE D. ROBERTS, Tacoma, Wash. Filed Apr. 13, 1921. Serial No. 461,115. 4 Claims. (Cl. 192—97.)

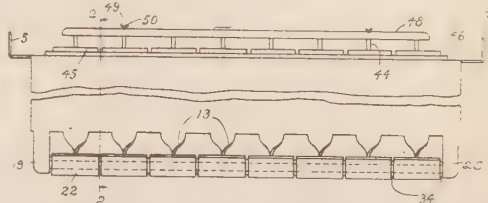


3. In a device of the character described the combination with a shaft, bearings therefor, a clutch having one member rotatably fixed on the shaft and the other member secured to a drum and rotatable upon the shaft, and a thrust-pin within said shaft of a chambered shouldered thrust collar secured upon one end of the shaft, a casing enclosing the same provided with a shoulder against which the shoulder on the thrust collar abuts, an interiorly screw threaded extension on the casing, and a thrust screw therein, of a revolving and sliding thrust block having oil channels therein fitting within the chambered thrust-collar and located between the thrust screw and the thrust pin and means between the thrust screw and the drum operable by axial movement in one direction to lock the shaft and drum together.

- 1,423,024. TOY PIANO. GEORGE E. ROBERTS, Spencer, Ohio, assignor to The Spencer Metal Products Company, Spencer, Ohio, a Corporation of Ohio. Filed July 31, 1919. Serial No. 314,461. 10 Claims. (Cl. 84—404.)

4. In toy pianos, a sheet metal key bent to form a top, a front and two side portions, said front portion

being bent backwardly and then downwardly to form an overhanging lip, said side portions being bent into closer spaced relation with each other from an intermediate



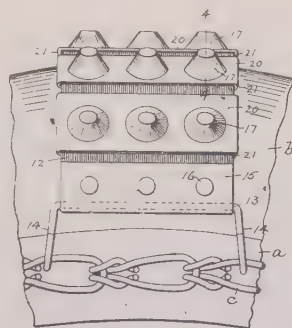
point to the rear end, and having holes adapted to receive a pivotal rod for the key and said top having a slot punched adjacent to said holes for the purpose described.

- 1,423,025. CONTROLLER FOR FISH LURES. CLAUDE M. RODGERS and ARTHUR W. WENGER, Warsaw, Ind. Filed May 25, 1921. Serial No. 472,477. 2 Claims. (Cl. 43—46.)



1. In a fishing lure, the combination with a rigid body of depth and oscillation controlling and stabilizing means secured thereto, said means comprising a member formed with a substantially semi-cylindrical intermediate portion having an integral laterally extending plane extension at one end and an integral laterally extending lip at the other end, and frictional members for securing the semi-cylindrical portion to the rigid body adjacent to one end of the latter, whereby the plane extension may be positioned at various angles to the plane tangent to the lower surface of the body.

- 1,423,026. ANTISKID ATTACHMENT FOR ELASTIC TIRES. WILLIAM T. ROLLINS, Boston, Mass., assignor to Russell Codman, Jr., Boston, Mass. Filed Mar. 25, 1922. Serial No. 546,604. 1 Claim. (Cl. 152—14.)



An anti-skid attachment unit comprising a flexible body strip of sheet material, adapted to be curved across a portion of a tire tread, and provided at its ends with anchoring devices; and a series of strip-stiffening skid-resisting elements extending transversely across the strip and inseparably united thereto, each of said elements including first, a flat-sided sheet metal plate bearing on the outer side of the body strip, bent across the longitudinal edges of the strip, and having ears bearing on the inner side of the strip, and secondly, a plurality of rivets having skid-resisting heads bearing on the outer surface of the strip, and shanks passing through the plate, the strip,

and the plate ears, and upset on the inner sides of said ears, the plates of said elements forming flat surfaces surrounding the bases of the rivet heads and protecting the major portions of the strip, said strips and their ears being spaced apart so that transverse portions of the strip are left flexible, and constitute hinges connecting said elements, and permitting the unit to conform freely to the transverse curvature of the tire tread.

1,423,027. ARTIFICIAL TOOTH. JOSEPH ELON ROSE, Portland, Oreg. Original application filed Oct. 7, 1920, Serial No. 415,258. Divided and this application filed Sept. 21, 1921. Serial No. 502,275. 2 Claims. (Cl. 32—29.)

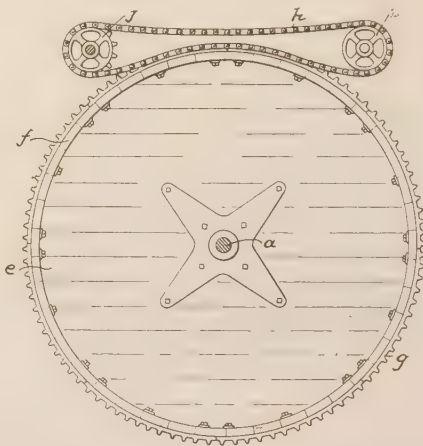


1. An artificial tooth comprising a thin metal crown having walls adapted to closely envelop the end and sides of a prepared natural tooth and to be trimmed and shaped to fit closely against the lingual, labial and other surfaces of the same; the labial crown-wall comprising a central protruding portion partially surrounded by a receding peripheral groove; a relatively thin labial facing accurately fitted and cemented to the protruding and groove portions of the labial crown-wall throughout the entire engaging surface and extending to its incisal edge; the rear surface of the facing and the outer and inner surfaces of the labial crown-wall being irregular, the irregularities of the rear surface of the facing being counterparts of the irregularities of the outer surface of the labial crown-wall and the irregularities of the inner surface of the labial crown-wall being counterparts of the irregularities of the labial surface of the prepared natural tooth, the mated counterparts corresponding reversely to each other thus providing intimate and exact fitting at all points; and the labial crown-wall providing a portion directly behind the incisal edge of the facing, considered in the direction of the tooth's axis, forming an impact-receiving wall to transmit to the crown, impact and strain applied to the facing at its incisal edge.

1,423,028. DRIVING MEANS FOR TANNING DRUMS. ERNEST ROTH, Philadelphia, Pa. Filed July 13, 1918. Serial No. 244,726. 1 Claim. (Cl. 74—42.)

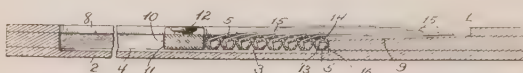
Driving means for tanners' drums or heavily loaded drums of large diameter, comprising a shaft for the drum, bearings for said shaft, a driving shaft parallel with and above the drum shaft and at one side of a vertical plane passing through the axis of the drum shaft, a driving sprocket wheel on the driving shaft and of very small diameter relatively to the diameter of the drum, an idle sprocket wheel arranged to rotate about an axis parallel to the driving shaft spaced from, and in substantially the same horizontal planes as the driving sprocket wheel, said idle wheel being at the side of the vertical plane passing through the axis of the drum shaft opposite the driving shaft, said sprocket wheels being between two vertical planes extending through the drum, a sprocket rack on the periphery of the drum extending into the space between the sprocket wheels, above the lower plane and below the upper of said horizontal planes, and a slack sprocket chain extending around the sprocket wheels and in engagement with the sprocket rack, the sprocket wheels and the rack being so disposed with rela-

tion to each other that the upper reach thereof extends in substantially a horizontal plane, while the major portion of the lower reach is of arcuate form within the planes of the sprocket wheels, the sprocket wheels being



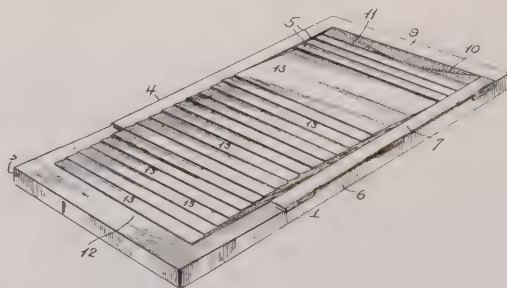
so spaced and positioned that the major portion of the lower reach of the chain is in contact with the rack and engaging a relatively large number of teeth of the rack, and is held in contact by gravity alone.

1,423,029. CARD INDEX. JOSEPH CLIFFORD RUSSELL, Pittsburgh, Pa. Filed Oct. 12, 1920. Serial No. 416,377. 4 Claims. (Cl. 129—16.)



3. In a card index, the combination of a card support consisting of a split tube provided at one of its edges with an inwardly projecting flange out of line with the centre of the tube, and a card entering the split tube and having a flange cooperating with the free edge of said inwardly projecting flange, and with the inner wall of the tube to lock the card to the tube within the same.

1,423,030. CARD INDEX. JOSEPH CLIFFORD RUSSELL, Pittsburgh, Pa. Filed Feb. 10, 1921. Serial No. 443,849. 4 Claims. (Cl. 129—16.)



1. In a card index, the combination with a frame provided with guideways, of a card support provided with cylindrical end portions movable in said guideways and having a body portion which is partly circular in cross-section.

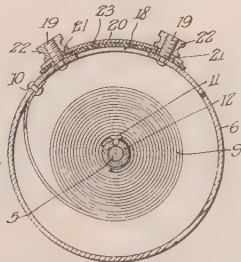
3. In a card index, the combination with a frame provided with guideways, of a sheet metal card holder having

a slot and provided with an inwardly projecting flange, a portion of which forms one wall of said slot, said sheet metal support having its body portion partly circular in cross-section and provided at its ends with cylindrical portions, and a card entering said slot and provided with a flange depending below the free edge of the flange in said support.

1,423,031. MANUFACTURE OF OPEN-HEARTH STEEL. HERBERT C. RYDING and ANSON W. ALLEN, Birmingham, Ala. Filed July 6, 1917. Serial No. 178,931. 2 Claims. (Cl. 75—46.)

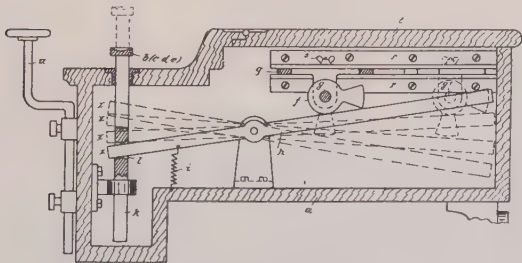
1. In the manufacture of basic open hearth steel the method which comprises first providing a highly heated or molten complete slag consisting of lime and oxidizing agents in a basic open hearth furnace, and then introducing a complete charge of molten blown metal, finishing it with the initial slag in said furnace, removing the finished steel and the slag and repeating the operation with an entirely new slag for the next heat of metal.

1,423,032. SPRING MOTOR. LUDWIG SCHMITT, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,445. 3 Claims. (Cl. 185—45.)



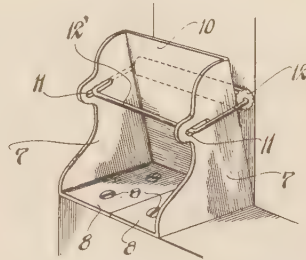
3. A spring motor of the type described, including a drum forming a spring housing, said drum having an opening in its circumferential wall for the supply of lubricant to said spring, a pair of threaded studs mounted in said wall opposite the ends of said opening, a gasket having openings fitting over said studs, a cover-plate for said opening curved endwise to conform to the curvature of said circumferential wall and formed with apertures fitting over said studs, and nuts on said studs for clamping said cover plate and gasket in place over said opening.

1,423,033. FINGER-TRAINING DEVICE. WILLIAM SCHMITT-MARCEL, Florence, Italy. Filed Mar. 11, 1921. Serial No. 451,659. 5 Claims. (Cl. 128—26.)



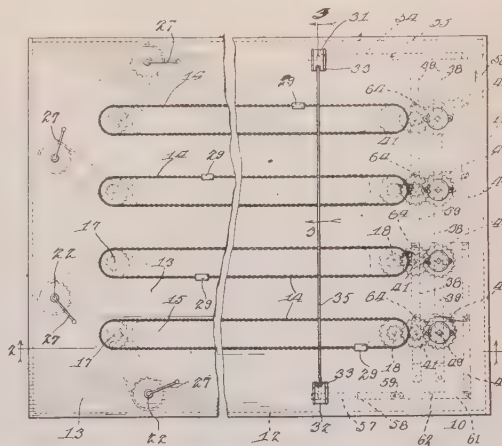
1. A finger training device, comprising movable keys, pivoted levers for actuating said keys, a shaft having a cup concentric with and encircling said shaft, and a cam for operating said levers, said cam having a hub adjustably receivable in said cup.

1,423,034. WINDOW-SASH HOLDER. HENRY L. SCHOLL, Spokane, Wash. Filed Dec. 20, 1919, Serial No. 346,222. Renewed Apr. 11, 1922. Serial No. 551,469. 1 Claim. (Cl. 292—239.)



A window sash holder consisting of an integral bracket having an attaching base plate, an inclined front plate, vertical side walls and rearwardly declining straight slots in said walls lying in a plane approximately perpendicular to the front plate, a U-shape bail journaled in the walls, a roller journaled on the bail to co-act with the front plate, and said bail adapted to form a pivot and the upper ends of the slots located in position, whereby the roller may be swung over the top of the bracket and rest on the rear edges of the walls of the bracket.

1,423,035. TOY. ERNEST G. SCHREYER, Chicago, Ill. Filed Dec. 13, 1919. Serial No. 344,580. 6 Claims. (Cl. 46—56.)

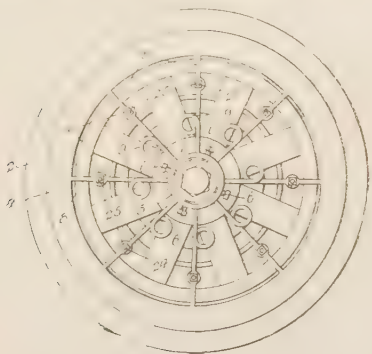


1. In a toy, the combination with a suitable frame, of a pair of spaced spindles mounted therein, a sprocket fixed on each spindle, an endless chain connecting said sprockets, a toy image fixed at a given point to each chain, hand operated elements for rotating said spindles and chain, a rotatable counting wheel, means indicating a point fixed with relation to said counting wheel, and gearing whereby the counting wheel is rotated from one of said spindles.

1,423,036. TIRE PROTECTOR. HOWARD H. SHANNON, Denver, Colo. Filed Mar. 5, 1921. Serial No. 449,825. 3 Claims. (Cl. 301—39.)

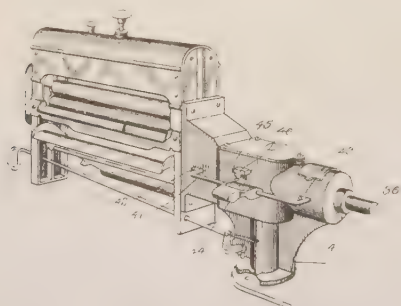
3. Means to prevent shredding or burning of the side of a pneumatic tire comprising an annular guard adapted

to be snugly arranged against the side of a tire and constructed for its connection to the wheel bearing the tire;



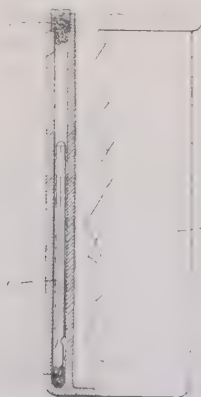
said construction including spokes, and the spokes being coiled and resilient.

1,423,037. GEARING. HENRY SIEBEN, Kansas City, Mo. Filed June 4, 1921. Serial No. 474,918. 4 Claims. (Cl. 74—101.)



1. A gearing comprising a drive shaft, spaced gears loosely mounted on the drive shaft and having clutch faces, a clutch member intermediate the gears and having clutch faces on its respective ends to alternately engage the clutch faces on the gears, mating gears at right angles to the first named gears and meshing therewith, stub shafts fixed to the last mentioned gears, aligning shafts for the stub shafts, and sleeved clutch members for connecting the aligning shafts to the stub shafts.

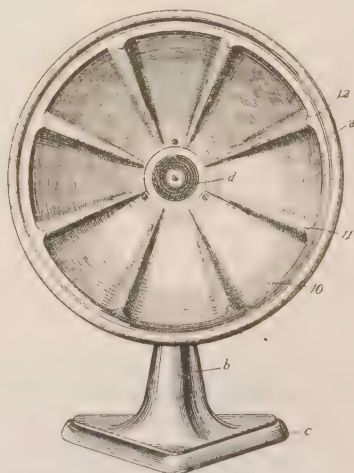
1,423,038. NURSING BOTTLE. VERA I. SIMS, Sioux City, Iowa. Filed Aug. 5, 1920. Serial No. 401,335. 3 Claims. (Cl. 215—11.)



1. A straight sided glass bottle having an interior vertical cell formed integrally with the side of the bottle,

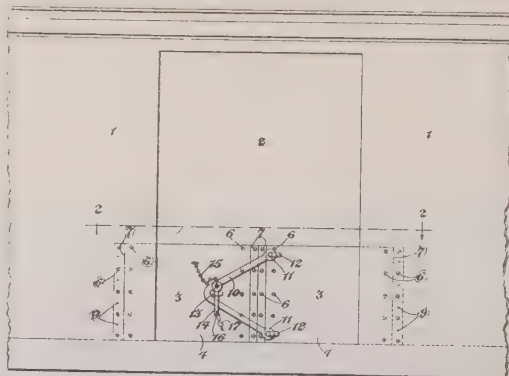
open at its upper end and adapted to receive a thermometer, irregular in cross-sectional contour, the interior of the cell being engageable with the thermometer to hold it against rotary movement.

1,423,039. ELECTRIC RADIATOR. CHARLES F. SMITH and GEORGE E. CURTISS, New Britain, Conn., assignors to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 8, 1920. Serial No. 364,079. 6 Claims. (Cl. 219—34.)



1. A reflector having a dish shaped reflecting surface provided with a plurality of longitudinally and transversely curved panels and angularly disposed walls connecting the panels.

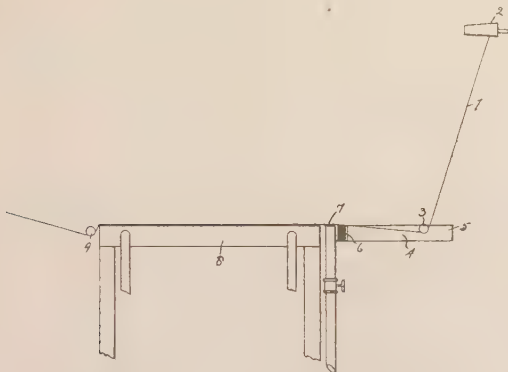
1,423,040. GRAIN DOOR. ROY E. SMITH, Iuka, Ill. Filed July 10, 1919. Serial No. 309,826. 2 Claims. (Cl. 20—30.)



1. A grain door, comprising two separate sections, each of which includes a vertical inner layer of board and a separate outer layer of board rigidly secured together and the outer layer terminating short of the vertical edges of the inner layer at both ends; a reinforcing strip secured to each extended end of the inner layer of board at each end of the outer layer and filling the spaces between the ends of the outer layers and the ends of the inner layers respectively; a V-shaped bar having the extremities of its arms pivoted to one of said sections between the two reinforcing strips secured to said section and being arranged to extend entirely across the two adjacent reinforcing strips and overlap relatively a considerable part of the other section; and a fastening

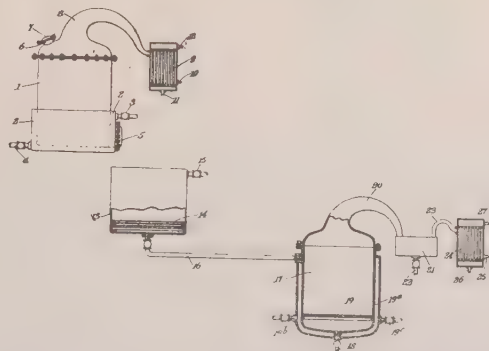
member carried by said other section between the two reinforcing strips secured to said other section arranged to be received between the arms of said bar at their point of union.

1,423,041. COMPOSITION FOR THE TREATMENT OF ARTIFICIAL SILK. CHARLES A. SNYDER, Philadelphia, Pa. Filed Sept. 3, 1921. Serial No. 498,437. 2 Claims. (Cl. 134—11.)



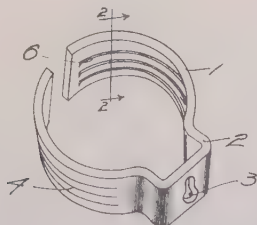
1. A composition for finishing artificial silk thread consisting of olive oil soap dissolved in water having olive oil added thereto.

1,423,042. PROCESS OF RECOVERING GLYCERINE. JOHN A. STEFFENS, Baltimore, Md., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 19, 1919. Serial No. 339,218. 5 Claims. (Cl. 87—4.)



3. The process of recovering glycerine from materials subjected to alcohol fermentation comprising precipitating the organic materials with an acid, distilling off the water, and then leaching with a liquid and recovering glycerine therefrom by distillation.

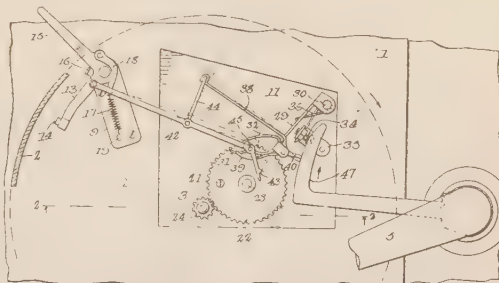
1,423,043. BROOM HOLDER. FRANK H. STEINHEISER, Spokane, Wash. Filed Oct. 18, 1921. Serial No. 508,587. 2 Claims. (Cl. 24—257.)



1. A broom holder comprising a split ring of resilient metal having a slotted offset portion, said ring having 300 O. G.—30

opposed annular series of slits forming tongues, and said tongues having inturned sharpened edges for frictionally engaging a broom handle.

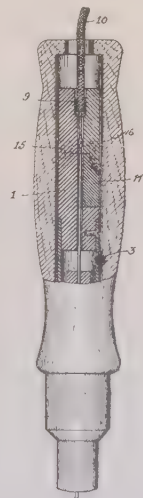
1,423,044. AUTOMATIC STOP FOR GRAMOPHONES. OLE O. STORLE, Tacoma, Wash. Filed Apr. 30, 1920. Serial No. 377,931. 5 Claims. (Cl. 192—116.)



1. In an automatic stop for gramophones the combination with a brake and means for releasably holding the brake in off position, of a trip adapted to be rotated by the rotation of the turn table, a brake releasing member movable into and out of the path of the trip, a pivoted support adapted in normal position to hold the releasing member in inoperative position, a lever carried by said support and connected with the releasing member, and a member movable with the tone arm of the gramophone and tending by engagement with said lever to shift the releasing member out of operative position as the tone arm swings inwardly over a record, the trip being adapted by engagement with said lever to periodically shift the releasing arm into operative position while the turn table rotates.

5. In an automatic stop for gramophones, the combination with a brake and means for releasably holding the brake in off position and applying it when released, of brake releasing mechanism comprising a pinion on the turn table spindle, a gear meshing with the pinion and a stationary plate on which the gear is mounted having a bearing fitting the spindle and determining the proper relation of the gear to the pinion.

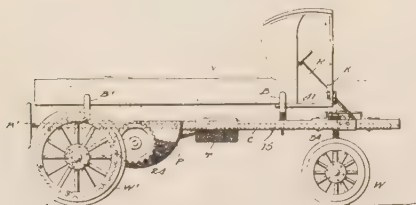
1,423,045. ELECTRICAL CONNECTOR. EMIL STRANSZKY, Dover, Ohio, assignor to The Dover Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Aug. 20, 1918. Serial No. 250,761. 1 Claim. (Cl. 247—13.)



A connection protector for electrical apparatus comprising a main body portion rabbetted to form a flat sur-

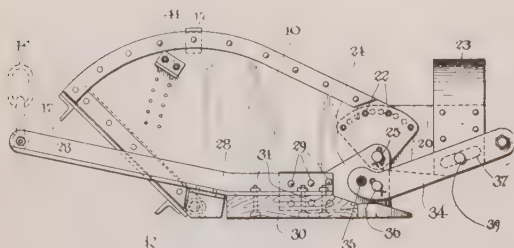
face parallel with the axis of the member and terminating in a shoulder perpendicular to said axis; a removable closure member adapted to fit in the recess formed by said two surfaces, said main and closure members together forming a complete protector of cylindrical contour; the opposing faces of the body and closure members being provided with longitudinal registering grooves adapted to receive lead wires; that part of the body portion beyond the shoulder being pierced by conduits in alignment with said grooves to receive the conductor terminals of said apparatus; and means for removably securing said closure in place.

- 1,423,046. FARM TRACTOR. EZRA W. TABER, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,406. 3 Claims. (Cl. 180—41.)



1. In a tractor, a chassis, brackets adjustably mounted on said chassis, driving wheels having stub axles journaled on said brackets, said driving wheels being adapted to be selectively arranged on the inner or outer sides of said brackets, gears carried by said driving wheels, driving shafts having a differential connection and a plurality of sets of gears carried by said driving shafts, one of said sets of gears being engaged with the gears of the driving wheels when said driving wheels are arranged on the outer sides of said brackets, and the other of said sets of gears being engageable with the gears of the driving wheels when said driving wheels are arranged on the inner sides of said brackets.

- 1,423,047. BUCKET. WILLIAM LOVE THOMPSON, Greenville, Miss. Filed Aug. 3, 1920. Serial No. 400,906. 14 Claims. (Cl. 37—40.)



1. In a bucket of the character described, a bucket body including side plates, a back plate and a bottom plate, an adjustable extension carried by the forward end of each of said side plates, an oscillating frame carried by the bucket body including a frame member pivoted to each of the side plates, upper and lower stops secured to each of the side plates and adapted to limit the oscillatory movement of said frame, said upper stop being adjustable and serving to properly suspend the frame in elevated position, a cutting bit carried by the frame members, a long lever rigidly and directly secured to each frame member, a short lever pivotally connected to each of said frame members, guide means carried by the adjustable extensions and operatively engaged with the short lever and runners carried by each of the long levers and adapted for alternate engagement with the ground with respect to the cutting bit.

- 1,423,048. FUEL. BURNELL R. TUNISON, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,306. 21 Claims. (Cl. 44—9.)

1. A liquid fuel which is more dense than kerosene, comprising a relatively heavy hydrocarbon of an aliphatic series, and alcohol.

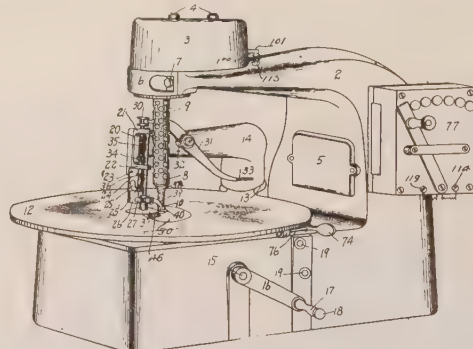
- 1,423,049. FUEL OF LIQUID TYPE. BURNELL R. TUNISON, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,307. 15 Claims. (Cl. 44—9.)

1. A liquid fuel comprising a petroleum distillate heavier than kerosene and an ester of an organic acid and a mono-hydric alcohol, the heavy oil being present in the proportion of about three-quarters of the total mixture.

- 1,423,050. LIQUID FUEL. BURNELL R. TUNISON, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Apr. 12, 1920. Serial No. 373,308. 11 Claims. (Cl. 44—9.)

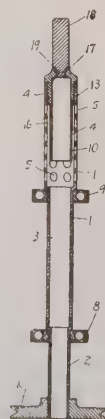
1. A liquid fuel consisting of a petroleum distillate heavier than kerosene, and an aromatic hydrocarbon.

- 1,423,051. BURNISHING MACHINE. LOUIS J. VAN GUELFEN, Cincinnati, Ohio. Filed Nov. 3, 1919. Serial No. 335,516. 14 Claims. (Cl. 69—1.)



1. In a machine of the character described, a revolving spindle, feeding and presser foot mechanism, and a feeding plate for supporting the same, and capable of being moved upward and downward, said feeding and presser foot mechanism moving upward and downward with the plate.

- 1,423,052. BURNISHING TOOL. LOUIS J. VAN GUELFEN, Cincinnati, Ohio. Filed Feb. 18, 1919, Serial No. 277,861. Renewed Feb. 15, 1922. Serial No. 536,817. 7 Claims. (Cl. 69—1.)



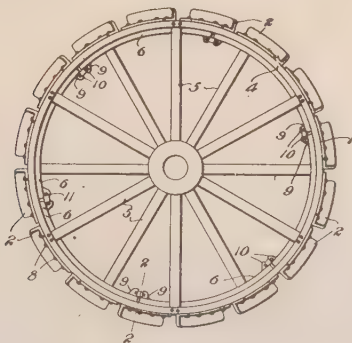
1. In a burnishing tool of the class described, a revolvable spindle, a tool carrier, said tool carrier situated

in said spindle, a removable tool capable of being attached to said tool carrier, and a heating unit also carried by said tool carrier.

1,423,053. EGG-PRESERVING COMPOUND. EDWARD VICTORINE, Cedar Rapids, Iowa. Filed Sept. 8, 1921. Serial No. 499,272. 1 Claim. (Cl. 99—1.)

An egg-preserving compound, consisting of the following ingredients in substantially the proportions stated, in parts and decimal parts by weight: calcium oxide, 148; aluminium and ferric oxides, 0.60; magnesium oxide, 1.40; sodium chloride, 99.20; calcium sulphate, 0.50; calcium chloride, 0.20; magnesium chloride, 0.05; insoluble matter and moisture, 0.05; water, 250.

1,423,054. TRACTOR-WHEEL WEIGHT. JOHN B. WALKER, Minerva, Ohio. Filed Mar. 25, 1922. Serial No. 546,591. 6 Claims. (Cl. 301—41.)



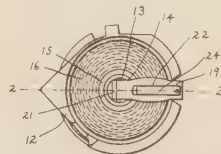
4. A tractor wheel weight comprising a plurality of arcuate sections, a lug formed at either extremity of each of said sections, a wedge engaging the lug at the extremity of one section and the lug at the extremity of the adjacent section and securing said sections together and to said wheel.

1,423,055. TOOL HANDLE. CHARLES A. WALTERS, near Marion, Iowa. Filed Mar. 12, 1921. Serial No. 451,908. 4 Claims. (Cl. 279—99.)



1. Combined with a tool-bit having a threaded stud, notched to form a key-seat, an engaging nut, a key slidable but non-revoluble therein, to engage said key-seat, and a handle having a stud threaded to engage the other end of the nut, and adapted to thrust the key into its seat.

1,423,056. SEWING-MACHINE BOBBIN CASE. LUCIUS E. WEAVER, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed Feb. 28, 1921. Serial No. 448,687. 1 Claim. (Cl. 112—233.)



A sewing-machine bobbin case comprising a central tubular post, a bobbin-confining latch pivoted within the outer end of the bore of the post, and movable to an operative position at right angles with the post, and to an inoperative position in alignment with the post, said latch having a cam-shaped arm at its inner end, means within the post for cooperation with said arm in yieldingly retaining the latch in either of said positions, the outer end of the latch being positively supported by the case, when the latch is in its operative position, said latch being provided with a longitudinal slot extending from the outer end portion of said arm, and an inherently resilient bobbin-controlling tongue fixed to the latch, at the outer end of said slot, and extending lengthwise of the slot, the tongue being shorter than the slot, and its inner end normally projecting from the inner side of the latch, and arranged to bear yieldingly on the outer end of the core of a universally wound bobbin when the latch is in its operative position, the tongue being adapted to be pressed into the slot by the bobbin, so that a bobbin of maximum length and yardage of thread may be confined by the latch and tensioned by the tongue, the edges of the slot preventing edgewise displacement of the tongue.

1,423,057. WINDOW. BENJAMIN WHIBLEY, Winnipeg, Manitoba, Canada. Filed June 16, 1919, Serial No. 304,733. Renewed Dec. 12, 1921. Serial No. 521,926. 4 Claims. (Cl. 20—521.)

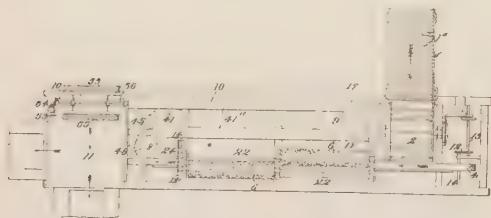


1. A window comprising a housing, inner and outer sills, an elongated opening between the sills, a permanent sash in the housing, normally resting upon the outer sill, a door normally closing the opening between the sills, a storm sash normally resting upon the door and slidably secured to the permanent sash to move relatively thereto to allow rotation of the door to clear the opening to permit descent of the sashes therethrough.

1,423,058. FUEL ADAPTED FOR USE IN INTERNAL-COMBUSTION ENGINES. MILTON C. WHITAKER, New York, N. Y., assignor to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed Nov. 12, 1919. Serial No. 337,398. 7 Claims. (Cl. 44—9.)

1. A fuel comprising an alcohol above 20 parts by volume, benzol 17 to 35 parts, gasoline 20 to 50 parts, and ethyl acetate 5 to 20 parts.

1,423,059. APPARATUS FOR WASHING AND CLEANING EGGS. COLONEL J. WILLIAMSON, San Francisco, Calif., assignor to Williamson Machine Company, San Francisco, Calif., a Corporation of California. Filed Dec. 27, 1920. Serial No. 433,528. 25 Claims. (Cl. 146—14.)



1. An apparatus for the described purpose, the same comprising means for receiving and wetting the eggs to be cleaned, means for receiving and advancing the wet eggs as a stream through the apparatus, and means associated therewith for scrubbing the eggs as moved forward in their path of travel.

1,423,060. DISK WHEEL. JOHN F. WILMOT, Detroit, Mich. Filed Nov. 2, 1921. Serial No. 512,163. 5 Claims. (Cl. 301—63.)

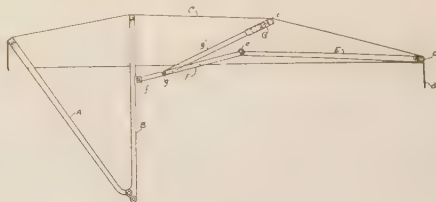


1. In a vehicle wheel having a hub and a rim, a main supporting disk attached at the periphery to the rim, and a series of disks each of less diameter than the next of the series, all of the disks being secured at the center to the hub and the disks intermediate the disk of least diameter and main disk being fixedly attached to the adjacent disk only.

1,423,061. FOLDABLE VEHICLE TOP. JAMES THRUSTON WOLFE, Washington, D. C. Original application filed July 17, 1914, Serial No. 851,586. Divided and this application filed Nov. 19, 1917. Serial No. 202,817. 2 Claims. (Cl. 296—116.)

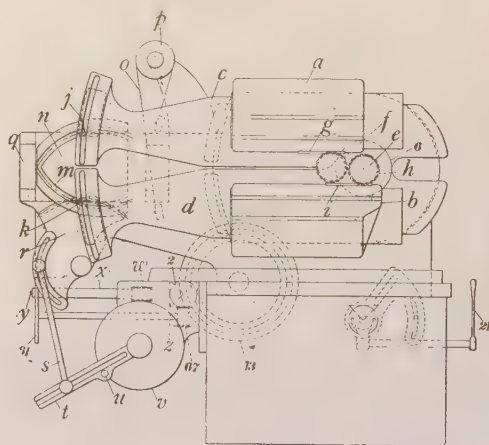
2. A foldable cover-support comprising a rear bow, a front bow, two-part rule-jointed side arms projecting the front bow from the rear bow and deflected upwardly to give the rear parts of the side arms upward and forward inclination and to render the side arms self-sustaining under the vertical load imposed by the cover when in shelter position, and an intermediate bow permanently pivoted to and upwardly and forwardly inclined from the

rear parts of the side arms but otherwise free from connection with the side arms, and a suitably sustained cover



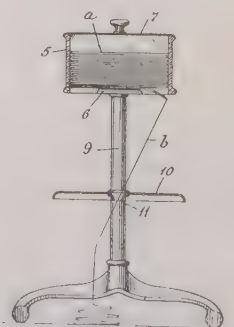
material permanently attached to the intermediate bow, and limiting its forward swinging movement upon the side arms when the top is in shelter position.

1,423,062. GEAR-CUTTING MACHINE. ISAAC HENRY WRIGHT, Salford, England. Filed June 1, 1920, Serial No. 385,688. 5 Claims. (Cl. 90—10.)



1. In gear cutting machines, the combination with a pair of balanced arms, a common pivot for said arms, means for moving said arms about said pivot, and tool carrying slides upon said arms, of a work blank carrier and means simultaneously rotating said carrier and traversing said slides on their forward or operative strokes, as set forth.

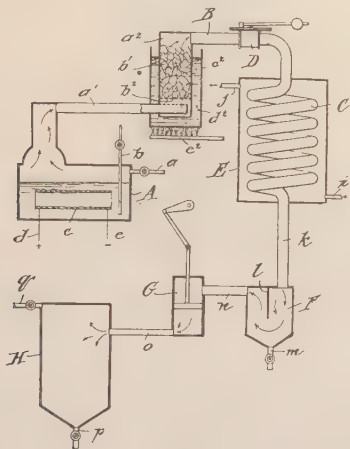
1,423,063. DISPENSING DEVICE. ADALBERT ALEXAY, Avenal, N. J., assignor to Simplex Paper Accessories Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 31, 1922. Serial No. 548,325. 6 Claims. (Cl. 211—29.)



1. A dispensing device for paper napkins comprising a container, a support therefor, a stack of napkins sup-

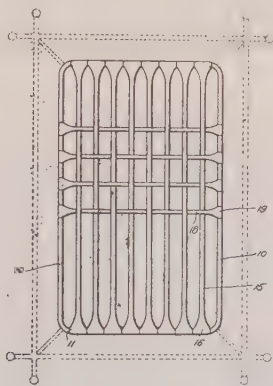
ported in said container, and a ribbon threaded through said stack of napkins and adapted to release the napkins from said container.

1,423,064. CARBURETING LIQUID FUELS. OTTO P. AMEND, New York, N. Y. Filed June 8, 1917. Serial No. 173,665. 9 Claims. (Cl. 44—9.)



9. A colorless motor fuel, made from petroleum, having a specific gravity above .74, a bromine absorption number in excess of 125, a flashing point below zero F., over fifty per cent of which fuel is volatile at temperatures below 80° C., containing not less than thirty per cent of naphthene hydrocarbons, and free from terpenes and resinous colloidal matter.

1,423,065. BED BOTTOM. SHERMAN L. ARNOLD, Woodlawn, Pa. Filed July 26, 1921. Serial No. 487,651. 3 Claims. (Cl. 5—39.)

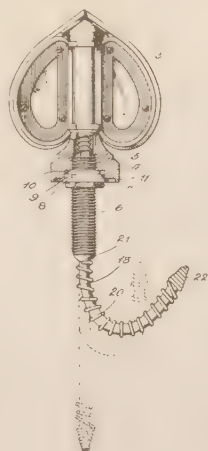


1. A bed-bottom comprising a rigid tubular metal frame, a plurality of supporting elements extending lengthwise thereof, such supporting elements being formed of rubber reinforced with textile material, the ends of such supporting elements being composed of rubber reinforced with textile material, and having apertures therein through which the end of said frame can be passed, and additional supporting elements extending crosswise of said metal frame, at the portion thereof where the greatest strain comes during normal use of the bed-bottom.

1,423,066. TEMPERATURE INDICATOR. LOUIS V. ARONSON, Newark, N. J. Filed Oct. 14, 1920. Serial No. 416,967. 1 Claim. (Cl. 116—114.)

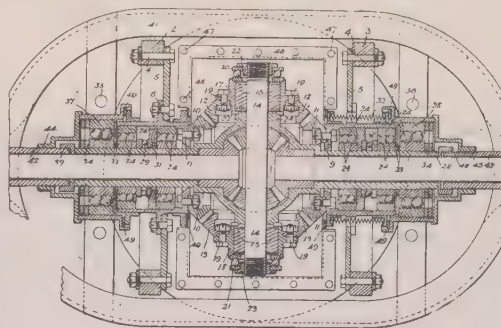
In a device for indicating the temperature of the cooling medium of an internal combustion engine, a flexible

tube adapted to extend into said cooling medium, indicating means carried by said flexible tube, a temperature responsive element contained in said tube, a flexible ther-



mal element wound spirally upon said tube, the turns of the spirals adjacent the end of the tube being closely wound whereby to protect the end of the tube.

1,423,067. VARIABLE-SPEED GEARING. MALCOLM FOERSTER LAMBE AYMÉ AYMARD, Colchester, England. Filed Nov. 4, 1921. Serial No. 512,893. 3 Claims. (Cl. 74—34.)

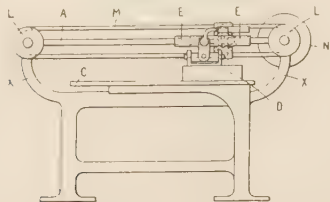


1. In a structure of the character described, a drive shaft, a friction disk carried thereby, a driving axle including separate end sections, casings for the axle sections, a differential housing, pinions carried by the inner ends of the axle sections, a shell receiving said pinions and having side tubes receiving the inner end portions of the axle sections, a pin extending radially through the shell between the pinions, pinions carried by the pin within the shell and extending between and meshing with the pinions of the axle sections, collars rotatable upon the sleeves upon opposite sides of the differential housing, friction rings received about the collars and engaging the friction disk, beveled gears carried by the collars within the differential housing, and beveled gears carried by the pin externally of the shell and within the housing and extending between and meshing with the beveled gears of the collars.

1,423,068. IRONING MACHINE. WILLIAM EXCELL BAKER, West Norwood, England. Filed Jan. 19, 1921. Serial No. 438,498. 2 Claims. (Cl. 68—9.)

1. An ironing machine comprising a flat iron, a table carried by a suitable frame over which said iron travels.

a bar or the like carried by said frame in parallel relation to said table, a pulley mounted in a bearing at each end of said bar one of said pulleys being adapted to be driven from any source of power, a flexible band running around and between said pulleys, a bracket adapted to



slide on said bar, an arm carried by and adapted to rock on said bar, flexible coupling means between said arm and said flat iron, a double acting clutch carried by said arm and adapted to engage said flexible band, and means for operating said clutch which is so connected with said iron that it partakes of all of its movements.

1,423,069. PROCESS FOR DISSOLVING OR RECOVERING METALS. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,418. 5 Claims. (Cl. 204—10.)

1. An electrolytic process of extracting metals from ores, matte, cupriferous waste and alloys, which comprises subjecting the metal containing materials to the action of a solution containing sulphuric and nitric acids in the presence of a catalyzer and under pressure, the pressure being formed by the electrolyzing of the said solution in a closed container.

1,423,070. PROCESS FOR PRECIPITATING METALS FROM SOLUTIONS. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,419. 2 Claims. (Cl. 75—18.)

1. The process for recovering by precipitation metals from their solutions characterized by the treatment of metallic salt solutions with organic substances containing poly-saccharides under pressure and at a temperature exceeding 100 degrees centigrade.

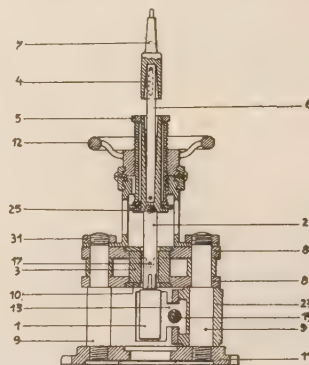
1,423,071. PROCESS FOR MANUFACTURING ELECTRODES. HANS BARDT, Santiago, Chile, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile, a Corporation of Chile. Filed Sept. 17, 1921. Serial No. 501,420. 4 Claims. (Cl. 204—4.)

1. Process for the manufacture of electrodes, which consists in electrolyzing a solution containing carbonate of manganese and an excess of perchloric acid, and employing anode material inert with respect to perchloric acid whereby a deposit of a peroxide film is formed upon the anode to serve as the desired electrode.

1,423,072. MEANS FOR DRILLING POLYGONAL HOLES. RUDOLF BARTHOLOMÄUS, Berlin, Germany. Filed May 5, 1921. Serial No. 466,972. 3 Claims. (Cl. 77—61.)

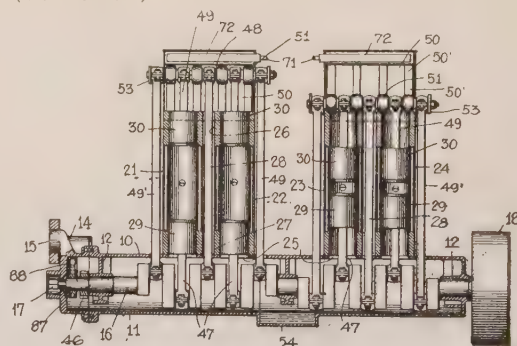
1. A device for drilling polygonal holes comprising a drill with a polygonal shaft, polygonal guide blocks, one side of each guide block abutting against a side of another guide block and the guide blocks being so disposed with respect to each other as to form a guide hole for guiding

the polygonal shaft and corresponding in shape to the hole to be drilled, and means for altering the size of



the said guide hole by positively shifting one of the said guide blocks so as to cause each succeeding block to move the one next to it.

1,423,073. INTERNAL-COMBUSTION MOTOR. ADOLPH BEHN and JOHN GUSTAV SCHMITT, Brooklyn, N. Y. Filed Aug. 12, 1920. Serial No. 403,023. 8 Claims (Cl. 123—51.)

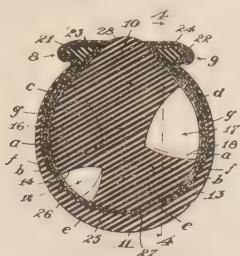


4. In an internal combustion motor, a plurality of cylinders arranged in groups of two or more cylinders each cylinder water jackets common to the cylinders of each group, two pistons for each cylinder, the pistons of each cylinder being arranged to alternately move toward and away from each other and to define a combustion chamber intermediately of the ends of the cylinders, valve mechanism including an intake valve and an exhaust valve for each cylinder, the valves for the cylinders of each group being enclosed in removable valve casings common to the cylinders of such group, the valve casings in each instance being situated directly opposite the explosion chambers formed in the several cylinders, valve casing water jackets for the separate valve casings, the valve casing water jackets and the cylinder water jackets being in communication, a crankshaft, a direct connection between one of the pistons of each cylinder and the crank shaft, a separate indirect connection between the other of the pistons of each cylinder and the crank shaft, and valve operating mechanism for the valves.

1,423,074. AIRLESS TIRE. CHARLES H. BRADEN, Los Angeles, Calif., assignor to National Airless Tire Company, Los Angeles, Calif., a Corporation of Nevada. Filed Apr. 27, 1921. Serial No. 464,808. 3 Claims. (Cl. 152—5.)

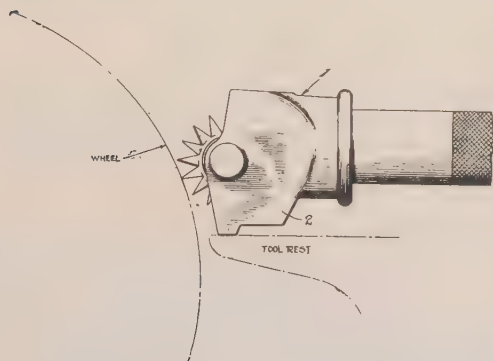
2. In a tire of the character described, an annular core having a pair of rows of cavities opening outwardly on

each of the opposite sides thereof, the cavities in each row being separated by tapered columns, the cavities in one row of the pair of rows being offset in relation to the cavities in the other row, the columns of the inner row decreasing circumferentially in width toward the inner



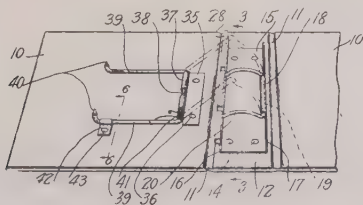
periphery of the core, and the columns of the outer row decreasing circumferentially in width toward the outer periphery of the core; there being a central body in said core extending between the inner and outer perimeters thereof separating the cavities on one side of the core from those on the other side.

1,423,075. STAGGERED-TOOTH CUTTER FOR DRESSING ABRASIVE ELEMENTS. FRANCIS C. BRANDENBURG, Piqua, Ohio. Filed May 22, 1920. Serial No. 383,435. 4 Claims. (Cl. 125—37.)



1. A cutter for a dressing tool comprising an assemblage of cutter units each having a peripheral series of sharp-pointed staggered teeth having their side faces extending diagonally of the axis of the unit, corresponding teeth of the units lying side by side throughout the series and presenting their sharp points to the face of the work piece.

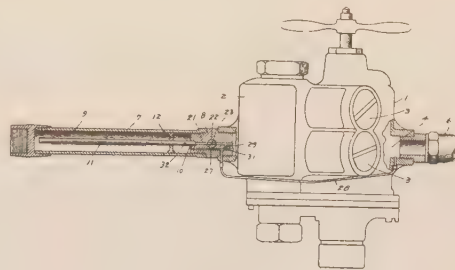
1,423,076. PAPER FILE AND BINDER. HARRY BRUNDAGE, San Francisco, Calif., assignor to George W. Koerner, New York, N. Y. Filed Dec. 10, 1920. Serial No. 429,620. 4 Claims. (Cl. 129—8.)



4. A file comprising a pair of rigid covers, a rigid backing plate hingedly connecting said covers, uprights extending in parallel from said plate, one of said uprights having a rolled edge, file prongs pivoted in said edge

adapted to extend over the other upright and enter recesses therein, a guard receptive of the ends of said prongs slidably mounted on the last named upright, stops limiting the action of said guard, spring means for frictionally holding said guard in adjustment, a fork pivoted on one of the covers, means co-operative between said fork and prongs whereby they are adapted to form continuous guides for articles disposed thereon and a clip for holding said fork when not in use.

1,423,077. OILING DEVICE. PETER WILLIAM BURKE and ANDREW JACKSON BREEDING, Bremerton, Wash., assignors of one-third to Frank Rogers, Bremerton, Wash. Filed May 26, 1921. Serial No. 472,769. 6 Claims. (Cl. 184—39.)



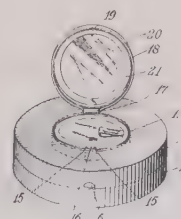
1. In a tool actuated by compressed air, a tubular oil chamber, a solid portion between said chamber and the working parts of the tool, a passage through said solid portion, a tube communicating with said passage extending into the oil chamber, a plunger in said chamber adapted to reciprocate on the tube, and means for diverting a part of the compressed air to actuate said plunger and to thereby force oil from the oil chamber through the tube into the working parts of the tool.

1,423,078. MUSIC-ROLL CABINET. EDWARD L. CARLSON, Denver, Colo. Filed Dec. 12, 1921. Serial No. 521,625. 2 Claims. (Cl. 211—16.)



2. A filing device for music rolls, comprising a body member of substantially rectangular shape and of considerable thickness, a longitudinal groove on each side of its upper surface, adapted to receive the end flanges of a music roll spool, and transverse channels joining said grooves and adapted to receive the body part of a music roll.

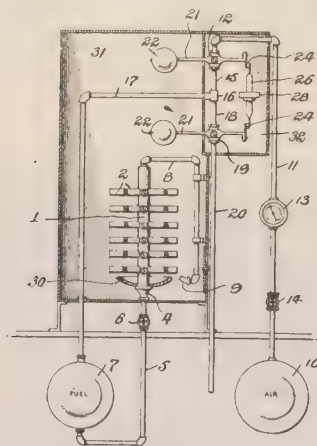
1,423,079. VANITY CASE. OSWALD J. CATHCART, Newburgh, N. Y. Filed Feb. 1, 1922. Serial No. 533,350. 7 Claims. (Cl. 132—83.)



6. A vanity case comprising a main body member, and a main cover member hinged thereto, and forming the

powder compartment, one of said members being provided with an aperture in its face, a rouge container of smaller diameter than the main body members, located within said apertured member, and in operative relation thereto, and having its outer edges substantially flush with the surface of said main member, and an independent cover member for the rouge container, comprising a flat metal plate pivoted to the apertured body member at one side of the aperture therein, and adapted to close said aperture and the rouge container when in closed position, a mirror supported on the interior of the main cover member, a powder puff located within said main body and cover members, a rouge puff of smaller diameter than the powder puff located in the rouge container, and a mirror carried on the interior of the cover for the rouge container.

1,423,080. SAFETY DEVICE FOR GAS GENERATING AND HEATING APPARATUS. WILFRID G. CHAUSSE, Detroit, Mich. Filed Aug. 8, 1919. Serial No. 316,081. 3 Claims. (Cl. 158—36.)



1. The combination of a gas generator, a fuel supply tank communicating therewith, a supply of air under pressure communicating with said fuel supply tank and adapted to force fuel to said generator, a burner communicating with said generator and adapted to receive gas therefrom and heat said generator, and valvular means controlling the supply of air to said fuel supply tank and adapted to automatically shut off the supply of air to said fuel tank and release the pressure of air in said fuel tank.

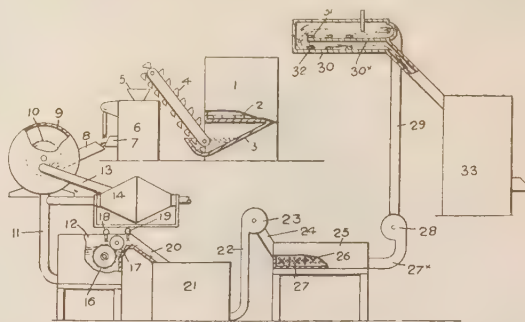
1,423,081. FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,049. 2 Claims. (Cl. 154—45.9.)

1. As a new article of manufacture, a fiber board composed of chip waste reduced to a cooked, shredded, pressed, dried state, and waterproofed.

1,423,082. APPARATUS FOR PRODUCING FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,050. 4 Claims. (Cl. 92—1.)

1. Apparatus for producing fiber board comprising a container, means for moistening and heating the chip waste therein, a beater, a conveyer between the container and beater, a screen, a chute extending between the beater and screen, a receptacle, a chute between the screen and receptacle, a cylindrical screen located in the receptacle, a co-acting felt roll cooperating therewith, a vat, a chute extending from the receptacle to the vat,

an agitator, a pipe and pump between the vat and agitator, a final receptacle provided with cross slats located in the bottom, and a pipe line extending from the agitator

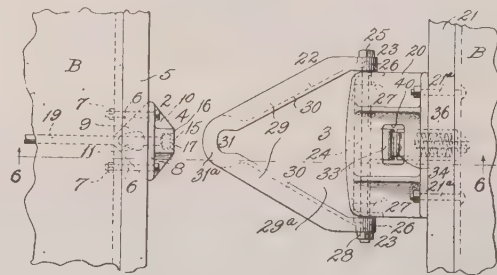


to the final receptacle, a pump located in the pipe line, and an inclined flat chute leading from the final receptacle to the press.

1,423,083. METHOD OF PRODUCING FIBER BOARD. MANLEY CHEW, Midland, Ontario, Canada. Filed Oct. 23, 1920. Serial No. 419,051. 5 Claims. (Cl. 92—1.)

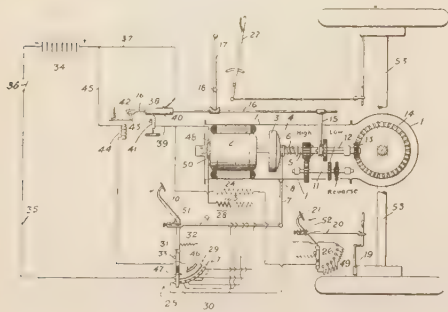
1. The method of manufacturing fiber board from chip waste consisting of steam cooking the waste, then introducing water into the mass, then beating the water permeated mass, then screening it, then agitating it and then feeding the mass now reduced to pulp in a flat stream to the press, then expressing the water therefrom and pressing the pulp into board form.

1,423,084. TRUCK COUPLING. JAMES H. COTTON and WILLIAM L. BURNER, Columbus, Ohio, assignors to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Aug. 23, 1919. Serial No. 319,489. 3 Claims. (Cl. 213—67.)



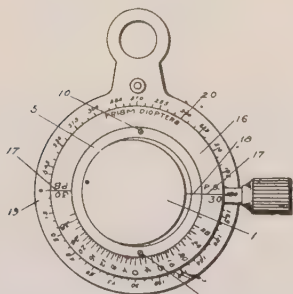
1. The herein described coupler devices for joining two adjacent trackless trucks having rigidly attached end-plates normally arranged to act as bumpers when approaching each other on lines inclined at any of numerous angles, said coupler presenting a male element and a female element each secured to an end of the base part of a truck, the female element being an elongated laterally expanded loop-like device hinged at its base line to the underside of one of said plates and having a laterally expanded triangular open space terminating in an active apex at its forward extremity, said element being adapted to swing up to a horizontal position under the floor of the adjacent truck when the trucks are at either of numerous angles as aforesaid, and the male element being a lug carried by and extending downward from the center of the end-plate of the adjacent truck and adapted to enter the open triangular space at the base line of the loop element and on either of several vertical lines remote from each other passing through said passageway, said male element and female element being adapted to positively compel relative movement of the cars to bring the male element to the apex of the loop.

clutch means, mechanical brake means operable to act upon said running gear, and further motor-controlling



means connected to and operable in conjunction with said mechanical brake means.

1,423,091. OPTICAL INSTRUMENT. HENRY L. DE ZENG, Moorestown, N. J. Filed May 21, 1920. Serial No. 383,058. 5 Claims. (Cl. 88—20.)

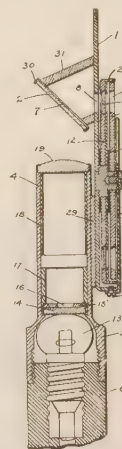


1. In a device of the character described, a holding element, a pinion mounted in the holding element, means for turning the pinion, a pair of separated annular rings mounted in the holding element and having gear teeth therearound adapted to mesh with the opposite sides of the pinion whereby rotation of the pinion will rotate the rings in opposite directions, a second pair of rings mounted in the first pair of rings and out of engagement with the holding element, removable means for securing the second pair of rings to the first whereby the second pair of rings may be removed from the device without removing the first pair of rings from the holding element, and a pair of lenses mounted in the second pair of rings.

1,423,092. OPTICAL INSTRUMENT. HENRY L. DE ZENG, Moorestown, N. J. Filed Apr. 16, 1921. Serial No. 461,794. 6 Claims. (Cl. 88—20.)

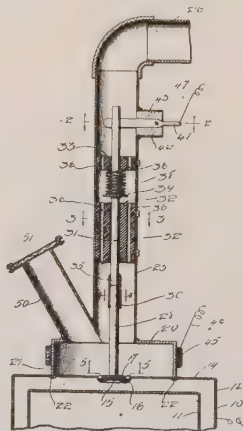
1. In a hand supported ophthalmologic instrument, a handle grip having a light chamber, a source of light in the light chamber, a reduced channel section beyond the handle grip, a diaphragm cross plate in the channel portion having an orifice smaller than the cross section of the channel, a supporting plate having a sighting orifice

secured to the outside of the reduced channel portion and extending substantially parallel with and beyond the end



thereof, and an inclined mirror having an orifice secured to the supporting plate in alinement with the channel portion.

1,423,093. METHOD OF AND APPARATUS FOR SEALING VACUUM JACKET. JOHN L. FATE, Chicago, Ill.; Daisy L. Fate, executrix of said John L. Fate, deceased, assignor, by mesne assignments, to C. Roy Gleason, Chicago, Ill. Filed Oct. 23, 1918. Serial No. 259,390. 10 Claims. (Cl. 113—82.)

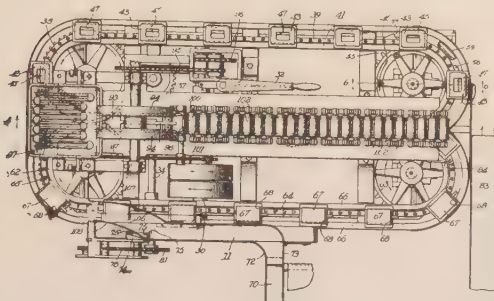


1. The method of exhausting and sealing a jacket having an opening through which air is exhausted and surrounded by a depression forming a trap, which embraces the steps of applying a fusible medium in said trap, applying a sealing cap over said opening in contact with said fusible medium, evacuating the jacket and forming a vacuumized space within a conduit around said opening, thereafter applying heat to said fusible medium through said cap while in the air exhausted space, whereby the sealing medium is trapped and the cap is sealed to the jacket over the opening, and finally releasing the vacuum in said vacuumized space.

10. Means for exhausting and sealing a jacket having an exhaust opening and around said opening a trapped depression, comprising a rimmed cap over said opening adapted to be primarily supported at its margin by solid fusible particles within said depression, an exhaust tube

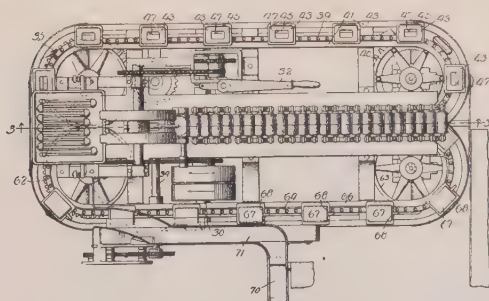
adapted for connection with a vacuum pump and having an open end adapted for sealing connection with the jacket wall around said exhaust opening, and an endwise spring pressed electrical heating element within said tube adapted for connection to an electric circuit and for pressure contact centrally against said cap.

1,423,094. CARTON-SEALING MACHINE. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 29, 1913, Serial No. 787,371. Renewed July 16, 1919. Serial No. 311,381. 55 Claims. (Cl. 93-6.)



33. A machine comprising mechanism for operating with respect to articles, and two conveyors, each during its travel, carrying said articles in position for said mechanism to operate with respect thereto.

1,423,095. CONVEYER. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 29, 1913, Serial No. 787,371. Divided and this application filed Apr. 10, 1920. Serial No. 372,746. 19 Claims. (Cl. 198-102.)

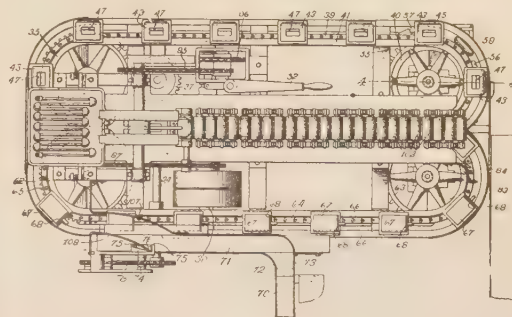


2. A conveyer mechanism including the two conveyers traveling throughout a portion of their length in separate paths and traveling together throughout a portion of their length, and means for transferring articles from the first conveyer to the second conveyer after said articles have traveled past the common portion of the paths on the first conveyer, whereby the articles will be caused to travel twice in the common path, once on the first conveyer and once on the second conveyer.

1,423,096. TRANSFER MECHANISM. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 29, 1913, Serial No. 787,371. Divided and this application filed Dec. 26, 1918, Serial No. 268,267. Renewed Oct. 9, 1920. Serial No. 415,948. 25 Claims. (Cl. 198-20.)

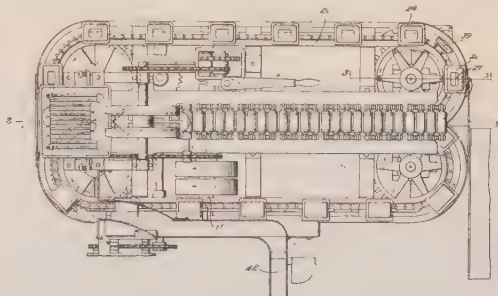
1. The combination with an endless conveyor, of a device for effecting the removal of articles laterally one by one from said conveyor, said device including a rotating member having its axis transverse to said con-

veyor located in the path of the articles carried by said conveyor and adapted to be peripherally engaged by such



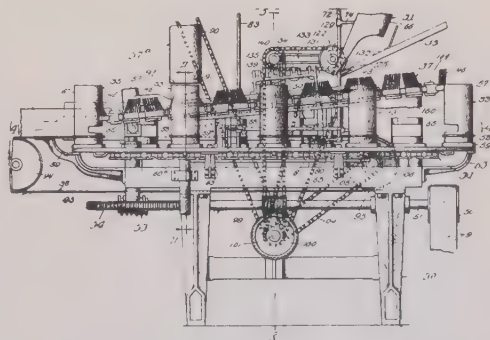
articles, said member having a gap in the periphery thereof for permitting the passage of one article at a time.

1,423,097. CARTON-HANDLING APPARATUS. JOHN L. FERGUSON, Joliet, Ill., assignor to The Quaker Oats Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Aug. 29, 1913, Serial No. 787,371. Renewed July 16, 1919, Serial No. 311,381. Divided and this application filed Jan. 14, 1921, Serial No. 437,319. Renewed June 13, 1922. Serial No. 567,974. 18 Claims. (Cl. 93-36.)



1. In a machine of the character described, carton supporting means, a driving member for moving said carton supports, a source of compressed air positioned to supply said air to remove said cartons from said supports, and means depending from said driving member comprising a member to open and close said compressed air source.

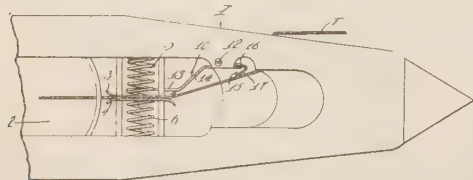
1,423,098. DEVICE FOR OPERATING ON CONTAINERS. JOHN L. FERGUSON, Joliet, Ill. Filed Jan. 25, 1917, Serial No. 144,551. Renewed Mar. 1, 1921. Serial No. 448,744. 55 Claims. (Cl. 113-27.)



1. A machine for placing peripherally flanged closures in closing position with respect to the openings of

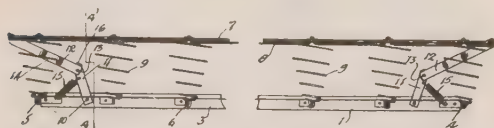
containers comprising a conveyor for the containers a guide member for traveling along with the containers and means whereby said guide member is positioned between the inner surfaces of the flanges of the closures and adjacent portions of the containers to guide the closures and the containers in their relative movement.

1,423,099. SHUTTLE ATTACHMENT. HOWARD LEROY FONNER, Altoona, Pa. Filed Apr. 4, 1922. Serial No. 549,442. 4 Claims. (Cl. 139—46.)



1. The combination with a weaving shuttle having thread engaging jaws and a thread exit eye; of a thread cutter mounted therein between said jaws and eye, said cutter having an arm positioned to be actuated by one of said jaws to throw the cutter into cutting engagement with the thread when excessive tension is placed on the thread.

1,423,100. BEDSPRING ATTACHMENT. ROBERT BRUCE GALLAGHER and REGINALD CHESNEY YOUNG, Winnipeg, Manitoba, Canada. Filed July 12, 1921. Serial No. 484,149. 3 Claims. (Cl. 5—29.)



1. The combination with a mattress, presenting upper and lower frames having cushioning springs interposed therebetween, of means for preventing relative side sway of the said frames, said means including levers pivoted to the side rails of the lower frame to swing only in the longitudinal direction of the rails, links connecting the free ends of the levers to the side rails of the upper frame, stops on the levers engageable with the links to limit upward swinging of the latter beyond a position substantially at right angles to the levers, and springs connected between the levers and the lower frame normally holding the levers inclined toward the ends of the frames and tending to resist the swinging movement of the levers occasioned by depression of the upper frame.

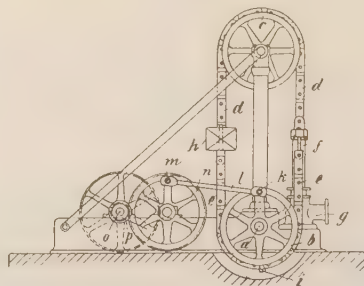
1,423,101. PROCESS OF PREPARING OPTICALLY-ACTIVE AROMATIC AMINOALCOHOLS. ALFONS GAMS and ERNST WYBERT, Basel, Switzerland, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Oct. 14, 1921. Serial No. 507,763. 1 Claim. (Cl. 260—128.)

A process for the preparation of optically active aromatic aminoalcohols, which consists in reducing optically active salts of the corresponding aminoketones, separating the salts of the optically isomeric aminoalcohols formed from each other, and transforming them into the free bases by the usual methods.

1,423,102. GEAR FOR WELL PUMPS. HEINRICH WILHELM GERKEN, Wandsbek, Germany. Filed Jan. 31, 1922. Serial No. 533,114. 2 Claims. (Cl. 74—14.)

1. Gear for well pumps, comprising three pulleys, two being journaled about a common axis and the third pulley being journaled at a distance above the said two pulleys, a sectional chain, one section surrounding the upper pulley

and the lower section being doubled and surrounding the said two lower pulleys, a cross head on one side of the endless chain attached at its center to the upper section of the chain and to the upper end of the piston rod of the well pump, and the two ends of the cross head being

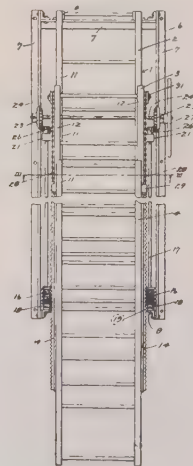


attached to the ends of the lower double section of the chain on one side, the ends of the chain on the other side being attached to a balance weight adapted to balance the weight of the piston rod, means to reciprocate the endless chain to an extent corresponding to the stroke of the pump.

1,423,103. COOLING COMPOUND FOR HOT JOURNAL BOXES AND PROCESS FOR PRODUCING THE SAME. JULIUS Q. GILL, Peoria, Ill. Filed Aug. 2, 1920. Serial No. 400,634. 5 Claims. (Cl. 87—9.)

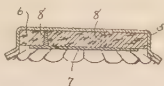
1. A cooling compound for hot boxes, which consists of corn oil, castor oil and caustic alkali in such proportion as to form soap, a small amount of free alkali, ivory black, methyl salicylate, and water in such proportion as to constitute more than 50% of the mixture.

1,423,104. EXTENSIBLE LADDER FOR FIRE ESCAPES. RICHARD GLASSER, San Francisco, Calif. Filed Apr. 27, 1921. Serial No. 464,852. 5 Claims. (Cl. 228—19.)



1. A drop ladder comprising a stationary and a plurality of movable vertical sections, one movable section being slidably secured to the stationary section and the next movable section to the first one, means secured to the stationary section adapted to engage and impart vertical motion to the first movable section, a pulley secured to the upper part of the latter, and a flexible connection between the bottom of the stationary section and the top of the second movable section being led over said pulley adapted to transmit the vertical motion of the first movable section to the second movable section at twice the velocity of the first movable section.

- 1,423,105. BOTTLE CAP. SVEND HANSEN, New York, N. Y. Filed Sept. 13, 1921. Serial No. 500,407. 1 Claim. (Cl. 215—38.)



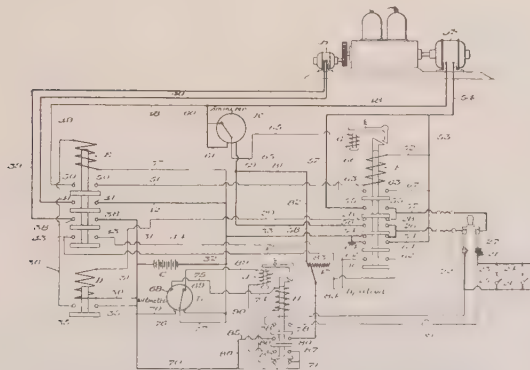
The combination with a bottle cap of a cork disk located therein, and corresponding in diameter to the internal diameter of the cap, so as to cover the inner face of the same, and a metal disk of smaller diameter than the diameter of the cork, applied to the exposed face of the cork and formed with integral prongs projecting through the said cork.

- 1,423,106. BOTTLE CAP. SVEND HANSEN, New York, N. Y. Filed Sept. 13, 1921. Serial No. 500,408. 1 Claim. (Cl. 215—38.)



The combination of a metal bottle cap with a ring of cork inserted therein, and a metal cup inserted into the center of the cork to bear against the inner face of the cap and formed with a flange overlapping the inner edge of the face of the cork.

- 1,423,107. ELECTRICAL GENERATING SYSTEM. HARRY A. HARRINGTON, Cuyahoga Falls, Ohio. Filed Jan. 10, 1920. Serial No. 350,641. 13 Claims. (Cl. 290—30.)

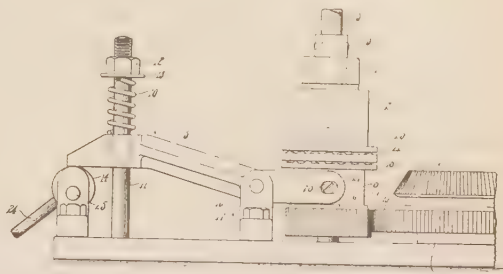


8. In an electrical generating system, the combination with an electrical generator; a battery; a prime mover; an electrical motor for starting the prime mover; and a main distributing circuit including current consuming devices; of a system of control for said apparatus comprising a main distributing circuit switch; an auxiliary switch for controlling the starting motor and an interlock operated by said auxiliary switch for interrupting the actuating circuit for the main switch when the auxiliary switch is open.

- 1,423,108. CLUTCH MECHANISM. JOHN ALLEN HEANY, New Haven, Conn., assignor, by mesne assignments, to Rockbestos Products Corporation, a Corporation of Delaware. Filed Jan. 24, 1919. Serial No. 272,870. 2 Claims. (Cl. 192—66.)

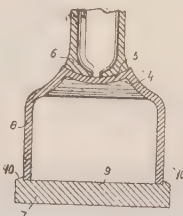
1. A friction clutch mechanism comprising: a vertical driven shaft, a cone clutch member attached to said shaft, a cone clutch member rotatably mounted on said shaft below said clutch member attached to said shaft, means for rotating said rotatably mounted clutch member, a sleeve on said shaft beneath said rotatably mounted clutch member for moving said clutch member vertically into and

out of engagement with said clutch member attached to said shaft, a ball bearing device between the top of said sleeve and said rotatably mounted clutch member, a horizontally pivoted lever extending away from said shaft and arranged to actuate said sleeve, a spring arranged to bear



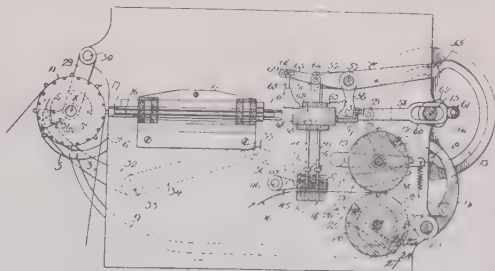
downwardly on the outer end of said lever to thereby tend to raise the rotatably mounted clutch member into engagement with the clutch member attached to said shaft, and a manually operable cam member arranged to engage the outer end of said lever for moving the lever against the action of said spring to clutch-disengaging position.

- 1,423,109. METHOD OF PRODUCING WHEELS. JACOB LUDVIG HELLEN, Kloften, Norway. Filed Dec. 30, 1919. Serial No. 348,417. 2 Claims. (Cl. 29—174.)



1. A method of constructing water-tight hollow metal wheels consisting in forming hollow metal spokes, thickening the outer ends of said spokes and providing the thickened ends with spherical end surfaces, forming a hub and placing the inner ends of said spokes in said hub, forming a metal ring into a felly of channel-shaped cross-section with the mouth opening outwardly, providing the bottom of the channel with integral spaced spherical seats corresponding to the number of spokes in the hub, placing the spherical ends of the spokes in engagement with the spherical seats, reducing the circumference of said felly to cause the same to grip the spokes, and placing a rim over the mouth of said channel.

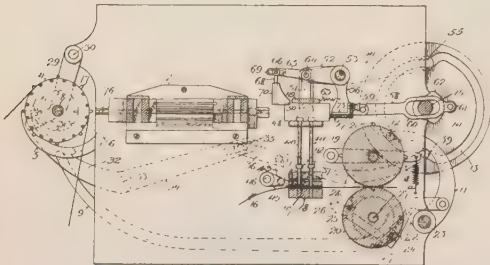
- 1,423,110. JACQUARD-CARD REPEATING AND TRANSPOSING MACHINE. LOUIS HERZOG, Beacon, N. Y., assignor to Glenham Embroidery Company, Beacon, N. Y., a Corporation of New York. Filed Sept. 1, 1920. Serial No. 407,428. 7 Claims. (Cl. 164—114.)



1. In a jacquard-card repeating machine the combination of selecting members adapted to be actuated by a

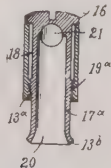
master jacquard card and members for perforating the repeat card, controlled by said selecting members, certain of said selecting members being adapted to control the perforations affecting the extent of movement devices in an embroidering machine jacquard, and others of said selecting members being adapted to control the perforations affecting the direction of movement devices in the jacquard, means for actuating corresponding perforating members according to the operation of said selecting members which control the extent of movement devices, and means for causing the transposition in the operation of certain other perforating members by said selecting members which control the perforations for the direction of movement devices of the jacquard.

1,423,111. JACQUARD-CARD REPEATING AND TRANSPOSING MACHINE. LOUIS HERZOG, Beacon, N. Y., assignor to Glenham Embroidery Company, Beacon, N. Y., a Corporation of New York. Filed Sept. 1, 1920. Serial No. 407,429. 3 Claims. (Cl. 164—114.)



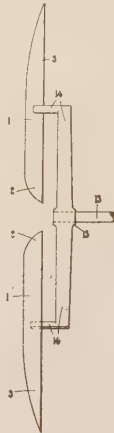
1. In a jacquard-card repeating machine the combination of punching members for making rows of perforations in a repeat jacquard-card, and consisting of a plurality of groups or series, platens adapted to individually lock the punching members for operation, slides operated by a master jacquard-card comprising a plurality of groups or series and means connecting the individual slides in said groups with individual platens bearing similar relative positions, but in different groups of said platens, whereby the operations of said slides are transposed to effect the transposition of the perforations in the repeat card.

1,423,112. OIL CUP. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to The Bilton Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 22, 1920. Serial No. 375,687. 2 Claims. (Cl. 184—95.)



1. An oiler of the class described, including a casing having a pocket formed therein adapted to be closed by a screw and provided with a threaded and plain side wall portion, a hollow screw adjustably mounted in the pocket and having part only of its periphery threaded to adjustably engage the threaded portion of the socket and provided with means to limit its withdrawal movement, said screw further including a side filling opening below the head of the screw and positioned to be closed when the screw head is seated.

1,423,113. SCREW PROPELLER AND THE LIKE. ALEXANDER ALBERT HOLLE, Hyde Park, London, England. Filed Jan. 21, 1922. Serial No. 530,952. 4 Claims. (Cl. 170—159.)



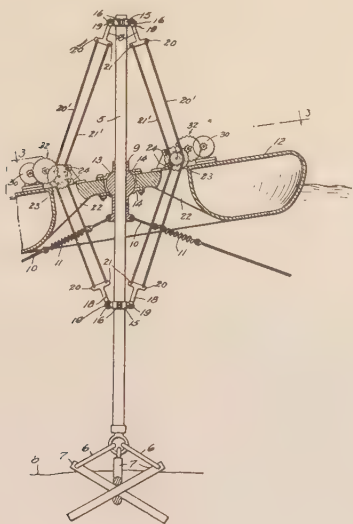
1. A blade for screw propellers, windmills, and like fluid operating or operated mechanisms comprising a central part and two end parts, the shape in plan of the central part being quadrangular and its shape in cross section being such that its chord gradually increases from its inner side and its camber and angle of incidence relative to the helical plane decreases towards its outer side; and the shape of each of the end parts in plan being such that it is cut away from its point of junction with the central part so as to bring its leading edge back until it meets its trailing edge, which is a continuation of the trailing edge of the central part, and the shape of each of said end parts in cross section being such that its chord, camber and angle of incidence to the helical plane are gradually reduced from their points of junction with the central part to their tips.

1,423,114. SAVINGS AND INSURANCE ACCOUNT BOOK. EVERETT J. HOUSE, Cleveland, Ohio. Filed May 11, 1920. Serial No. 380,580. 1 Claim. (Cl. 283—57.)

THE LIBERTY SAVINGS & LOAN COMPANY					No.	1034	Age.	35
LIFE INSURANCE DEPARTMENT					Amount of Insurance		\$ 10000	
SUBJECT TO RULES AND REGULATIONS					In Name of and All rights reserved to		John Rev.	
					Cleveland, O.			
Date	Deposited	Paid for Insurance	Amount of Insurance	Cash Savings	Interest	Total on Deposit	Withdrawn	Total to Beneficiary
Jan. 2	100.00	100.00	10000.00					10000.00
Jan. 2	100.00	100.00	10000.00	18.60	93	19.53		10019.53
Jan. 2	100.00	100.00	10000.00	32.40	2.40	54.79		10054.79
Jan. 2	100.00	100.00	10000.00	43.60	41.92	103.25		10103.25

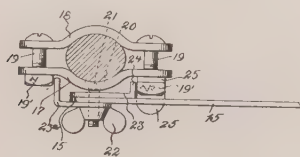
Means for facilitating the keeping of depositors' accounts with associated savings and insurance organizations, consisting of a pass book the pages of which have successively arranged, appropriately headed columns for entering the date of deposits, amount of deposit, amount paid for insurance, amount of insurance, cash-savings, interest, total on deposit, withdrawals, and total to beneficiary.

1,423,115. WAVE MOTOR. OSCAR HULTBERG, Seattle, Wash. Filed Apr. 11, 1921. Serial No. 460,452. 4 Claims. (Cl. 253-10.)



1. In a wave-motor, the combination of a mast, means to maintain said mast substantially vertical, a floatative vessel, means for connecting said vessel to the mast to rise and fall with the waves, wheels provided on said vessel, cables extending through the vessel and connected above and below the same to said mast, means provided on said wheels whereby the latter are caused by said cables to be rotated in the same directions during both the upward and downward wave impelled movements of the vessel.

1,423,116. WINDSHIELD AWNING. EARL H. HUTCHESON, Augusta, Ga. Filed July 2, 1921. Serial No. 482,115. 2 Claims. (Cl. 296-95.)

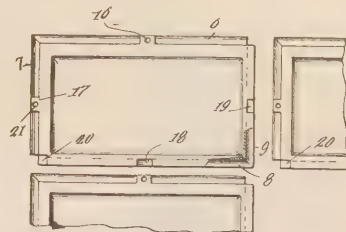


2. An attachment of the character described including opposed clamps, bolts passing through the ends of the clamps and having nuts, a pivot bolt projecting from one of said clamps, an oscillatable member mounted on the pivot bolt, washers disposed on each side of the oscillatable member and through which the pivot bolt passes, and a nut on the pivot bolt bearing against one of said washers, each of said washers being provided with lugs engaging against the first named nuts and holding said nuts from rotation and being held from oscillation by said nuts.

1,423,117. TILE. BENJAMIN P. INFANTINO, New York, N. Y. Filed Feb. 14, 1919. Serial No. 277,056. 1 Claim. (Cl. 72-19.)

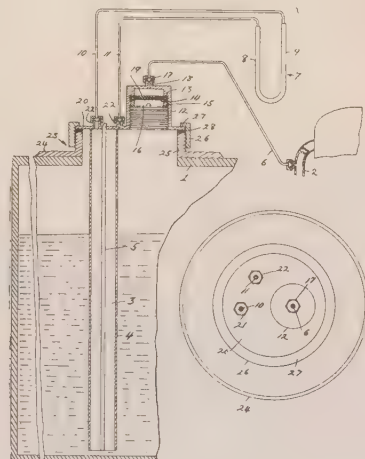
A tile having tongues approximately midway of its thickness along its top and one end edge, and grooves along the bottom and other edge, said tongues each having a laterally extending portion constituting a filler

lug having a portion arranged flush with the back face of the tile, each tongue having an opening extending through the same and the filler lug for the insertion of



a fastening device, and the rear walls of the grooves being provided with notches adapted to snugly receive the filler lugs of contiguous tile.

1,423,118. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich. Filed Apr. 1, 1920. Serial No. 370,417. 6 Claims. (Cl. 73-54.)

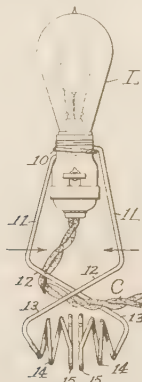


1. In a depth indicating device for liquids, the combination with a closed tank containing a liquid, of a chamber communicating with the air outside said tank and with the liquid in said tank, a suction pipe connected to said tank for producing a vacuum therein sufficient to draw air into said chamber for displacing the liquid down to the point of communication of said chamber with the liquid, means for preventing the passage of the liquid from said tank through said suction pipe, and a pressure gage in communication with said tank above the level of the liquid therein.

1,423,119. HOLDER FOR ELECTRIC LAMPS AND THE LIKE. JAMES F. KING, Worcester, Mass. Filed Sept. 9, 1921. Serial No. 499,437. 2 Claims. (Cl. 248-20.)

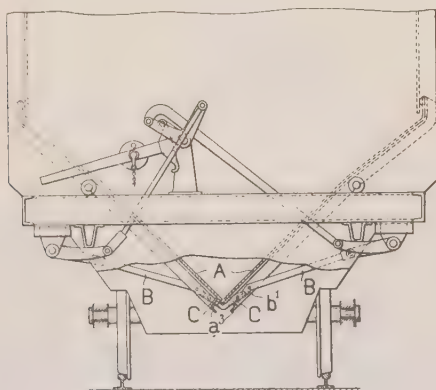
2. As an article of manufacture, a holder for electric lamps and the like comprising a wire coil the ends of which extend therefrom in a plane transverse to the plane of the coil, and diverge from each other, said arms extending inwardly from their extremities and crossing each other, and having a pair of flexible parallel surfaces on their extreme ends for engaging on opposite sides to a flat article, whereby the natural re-

siliency of the wire will hold said surfaces together and apply pressure to the opposite sides of an article to



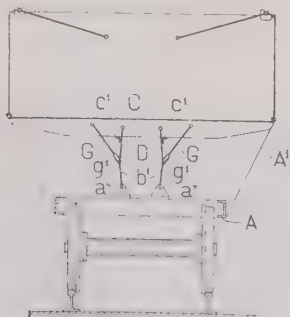
which they are applied and whereby pressure applied inwardly to said arms will release the grip.

1,423,120. LOCKING MECHANISM FOR THE DOORS OF SELF-DISCHARGING RECEPTACLES. PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 14, 1921. Serial No. 507,735. 2 Claims. (Cl. 105—38.)



1. In a locking mechanism for doors, an operating element for each door, a bolt pivotally secured to each door and pivotally secured to the associated operating element, each bolt engaging in the loading position of the doors behind the edge of the other discharge door.

1,423,121. DUMPING CAR. PAUL KRÜGER, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Mar. 17, 1922. Serial No. 544,542. 2 Claims. (Cl. 105—260.)



1. In a dumping vehicle a body provided with end walls, a bottom tiltable to either side about laterally dis-

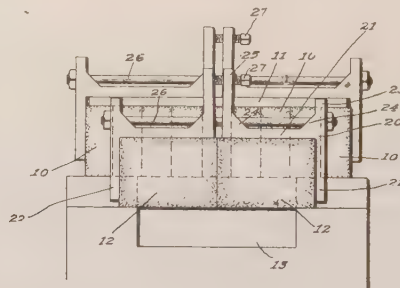
posed axes and crank-arms located on each side of the central longitudinal plane, and links positively connecting said bottom to said end walls.

1,423,122. CONFETTI BOMB. JAMES KYRIAZOPOULOS, Lowell, Mass. Filed Feb. 7, 1920. Serial No. 357,005. 9 Claims. (Cl. 41—10.)



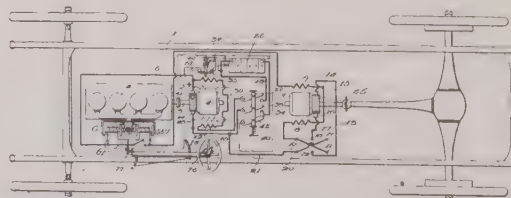
1. A confetti bomb comprising a frangible shell containing a compacted charge of confetti adapted to be distributed by the fragmentation of said shell caused by exterior action.

1,423,123. FORGE CLAMP. PHILIP A. LEACH, East Brimfield, Mass. Filed Jan. 31, 1921. Serial No. 441,283. 1 Claim. (Cl. 263—1.)



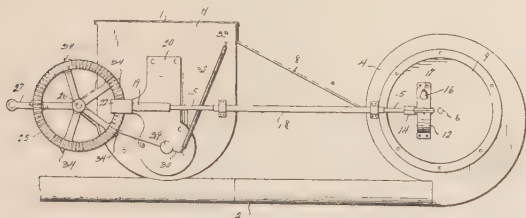
In a clamp, the combination of a pair of members each having a horizontal main portion and two arms or projections extending upwardly therefrom at opposite ends, and a jaw extending downwardly therefrom in alignment with one of said projections, means extending through the two pairs of arms and projections just above the horizontal position for pivotally connecting them together at that point, and means mounted on one of the arms for engaging the corresponding arm on the other member and forcing them apart at their extreme ends.

1,423,124. GASOLINE-ELECTRIC AUTOMOBILE. FRANCIS GLOYD LE MERLE, MERVIN JEAN ULLMAN, and JOHN EMMET BARRY, Washington, D. C. Filed Sept. 14, 1920. Serial No. 410,188. 5 Claims. (Cl. 290—17.)



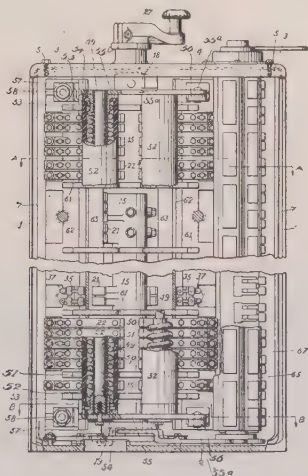
5. The combination with a prime mover and generator apparatus, of a series motor connected thereto, and a regulator comprising a throttle valve for the prime mover, a torque motor connected thereto, comprising an armature and field winding connected in series and across the generator terminals, and an auxiliary field winding connected in series with the generator.

1,423,125. DUST GUN. JOSEPH F. LEMONS, Adams, Tenn., assignor of one-fourth to W. B. Winters, Adams, Tenn., and one-fourth to John Hancock, Springfield, Tenn. Filed Oct. 15, 1921. Serial No. 507,991. 3 Claims. (Cl. 43—148.)



1. In a dust gun, a hopper, a delivery tube associated with the hopper and in communication therewith, a rock shaft mounted within the hopper above the communication between the hopper and tube, an agitating member carried by said shaft, a fan casing having an outlet communicating with one end of the delivery tube, a rotary blower fan within the casing, a second shaft rotatably carried by the hopper, a member fixed to said second named shaft and operatively connected with the fan to rotate the same, oppositely directed members carried by the rock shaft, means associated with one of said last named members for automatically turning the rock shaft in one direction, the second of said last named members closely approaching the gear, and circumferentially spaced lugs carried by the gear for contact with the second of said last named members to intermittently move the rock shaft in a second direction.

1,423,126. ELECTRIC CONTROLLER. NILS D. LEVIN, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 21, 1916. Serial No. 132,686. 17 Claims. (Cl. 200—10.)

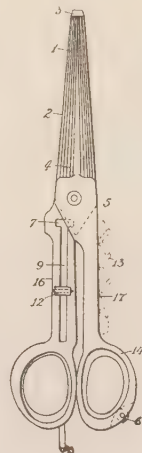


1. In a controller of the class described, the combination with a rotatable cylinder, of contact plates carried by the cylinder, brushes adapted to contact with the plates, an elongated magnet core adjacent the points of contact of the brushes and having its magnetic axis parallel with the axis of the cylinder, and an insulated conductor wound upon said core.

12. In a controller of the class described, the combination with a rotatable cylinder, of plates carried by the cylinder, brushes adapted to contact with the plates, an

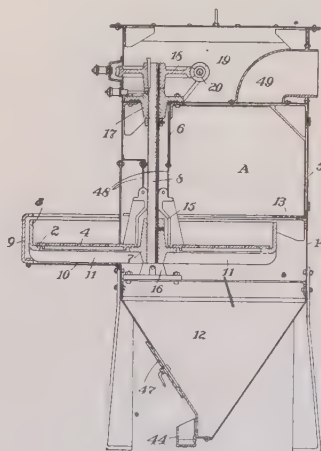
elongated blow out magnet adjacent to point of contact of the brushes, and independently removable insulating plates between the brushes to prevent the formation of arcs between adjacent brushes.

1,423,127. SCISSORS. EDWARD LEVY, London, England. Filed Mar. 16, 1920. Serial No. 366,290. 2 Claims. (Cl. 7—6.)



1. A can-opening tool of the scissors type including a combination with the closed scissors members, the handle of one member carrying a pivoting point and having a longitudinally disposed slot with an enlargement at one end guarded by one handle member when the scissors are closed, and a cutting element movable in said slot and releasable through the slot enlargement when the handles are separated.

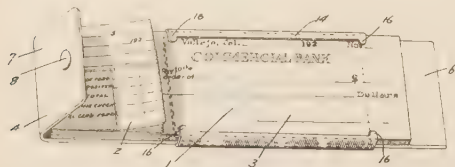
1,423,128. SAND-BLAST APPARATUS. HUGO F. LIETKE, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a Corporation of Maryland. Filed Dec. 8, 1920. Serial No. 429,233. 10 Claims. (Cl. 51—15.)



1. In combination in a sand blast apparatus, a casing, a rotary carrier lying partly within and partly without said casing, a sand blast nozzle, an air jet nozzle, an arm supporting said nozzles at its free end and oscillating in a horizontal plane over the said table, a vertical shaft

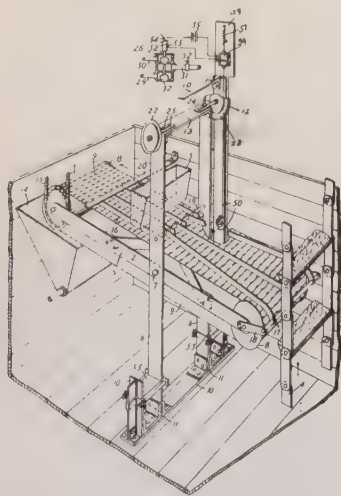
carrying said arm, and a pair of flexible hose pipes extending from a point adjacent the axis of oscillation of the said nozzle supporting arm to the nozzles carried thereby, substantially as described.

1,423,129. STIFFENER FOR FOLDING BOOKS. WARREN O. LYNCH, Berkeley, Calif. Filed Oct. 15, 1921. Serial No. 507,831. 1 Claim. (Cl. 24—66.)



A stiffener for a folding book of the character described adapted to stiffen the same in its folded and in its unfolded condition comprising a stiffening plate substantially co-extensive with the folded book having flanges thereon adapted to slidably engage the upper and lower edges of the body portion of the book and to be slid along the said edges when the book is unfolded so as to stiffen the creased portion of the book, a large central portion of the flanges being cut away so as to fully disclose the reading matter on the check while the remaining projections extending from the ends of the flanges insure a firm contact between the plate and the book.

1,423,130. ORE CONCENTRATOR. WILLIAM C. MCCOY, Wilkesburg, Pa. Filed Sept. 26, 1917. Serial No. 193,230. 24 Claims. (Cl. 83—83.)

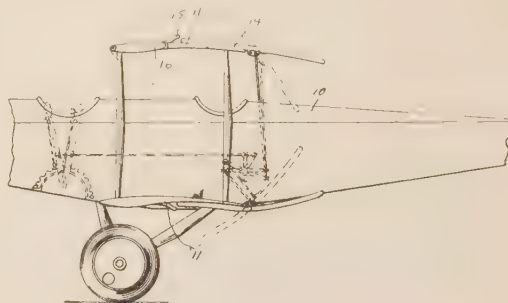


1. In an ore-classifying machine, the combination with an ore carrying table, a tank for containing fluid in which said table is adapted to be submerged, of a device for oscillating said table relative to the tank, and means for controlling the oscillating impulses from said device in accordance with the movement of said table.

1,423,131. AEROPLANE. CHARLES D. MCNAMARA, Fair Play, Colo. Filed May 4, 1921. Serial No. 466,833. 2 Claims. (Cl. 244—29.)

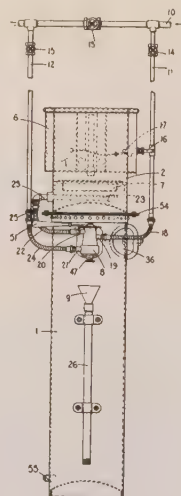
1. In an aeroplane, the combination with a main plane thereof, of an auxiliary plane pivoted at its transverse

center to said main plane and shiftable about its pivot to engage and disengage the main plane, means to prevent



air passing from what is the meeting edge of the auxiliary plane below said auxiliary plane and means for shifting said auxiliary plane.

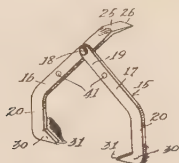
1,423,132. TREATMENT OF WATER FOR SOFTENING, STERILIZING, AND LIKE PURPOSES. HENRY J. MAGRATH, London, England. Filed Aug. 31, 1921. Serial No. 497,334. 4 Claims. (Cl. 210—24.)



1. A plant for use in treating water for softening and like purposes, and involving the use of a reagent which requires regenerating at intervals, said plant comprising a vessel the lower portion of which forms a chamber adapted to contain the active material and a bed of filtering material, and the upper portion of which forms a separate chamber for the regenerating solution, a ball cistern in connection with said separate chamber, a multiple-way cock, comprising an outer shell with a discharge outlet to waste, and a plug with passages therein fitting in said shell, pipes connecting the shell of said cock with the water inflow and outflow and with the separate chamber, a distributing head in the lower chamber above the active material, a pipe connecting the distributing head with the shell of the cock, a collecting pipe and connections leading from near the bottom of the lower chamber to the shell of the cock, the plug of said cock being adapted to be set in either of two positions, in one of which water can only flow through the lower chamber for treatment therein, while in the other position regenerating solution can flow from said separate chamber through the lower chamber for regenerating purposes, fol-

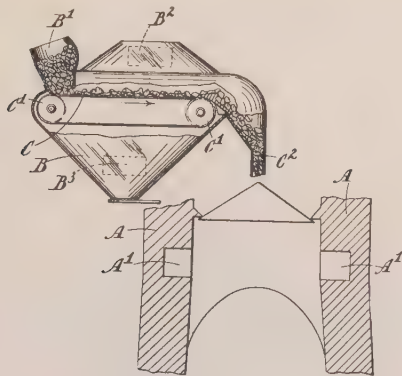
lowed by water from said ball cistern for washing out purposes, the spent solution and the waste washing water being discharged through the waste outlet of said cock.

1,423,133. TIE DEVICE. ALEXANDER S. MATHERS, Los Angeles, Calif. Filed May 28, 1921. Serial No. 473,456. 11 Claims. (Cl. 85-14.)



1. In a device of the character described, two outwardly diverging legs pivotally connected at their inner ends, inwardly extending projections at the outer ends of the legs, and a transversely extending projection at the inner end of one of the legs.

1,423,134. LOW-TEMPERATURE DISTILLATION. ARTHUR CUMMING MICHIE, Newcastle-upon-Tyne, and EDMUND GEORGE WEEKS, Northumberland, England, assignors to Charles Hesterman Merz and William McLellan, both of Westminster, London, England. Filed Nov. 12, 1919. Serial No. 337,573. 2 Claims. (Cl. 202-8.)

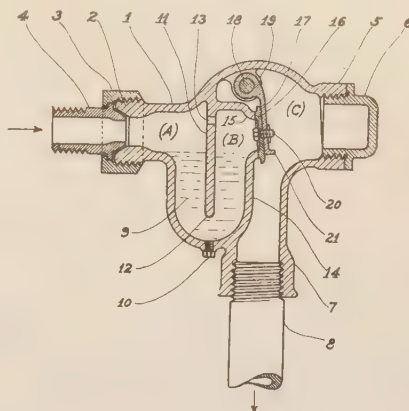


2. The process of continuously distilling fuel which consists in passing a heating medium through a body of said fuel, providing fresh charges of fuel separate from the said body of fuel, passing a heating medium through the charges and raising the temperature thereof above the temperature of condensation of the distillate but below a temperature that will effect appreciable decomposition of the fuel, and delivering the said charges while so heated to the body of fuel.

1,423,135. RELIEF VALVE. ARNOLD W. MILLER, Pittsburgh, Pa., assignor to C. Howard Hook, Pittsburgh, Pa. Filed May 14, 1921. Serial No. 469,591. 1 Claim. (Cl. 137-103.)

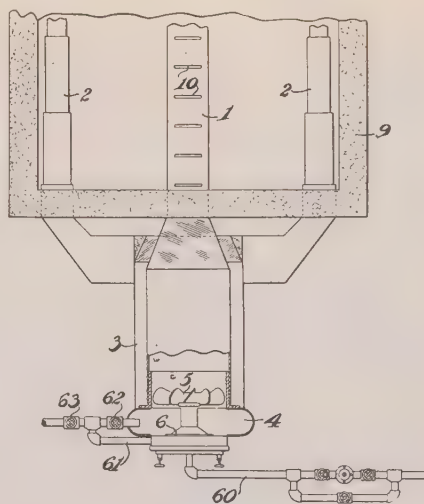
A relief valve comprising a casing provided with partitions forming three compartments, an inlet compartment having an inlet port near the upper end thereof, an outlet compartment having an inspection opening adjacent its upper end and a discharge port at its lower end, and an intermediate pressure compartment, the partition between the pressure and outlet compartments being provided with an outlet port, a valve therefor, the partition between the

inlet and pressure compartments being spaced from the bottom of the casing to provide a water seal and having a reduced aperture adjacent its upper end, the inlet port,



the aperture, the outlet port and inspection opening being in substantial alignment and the aperture being disposed above the centers of said inlet and outlet ports.

1,423,136. DRYING KILN AND PROCESS. MORITZ L. MUELLER, Seattle, Wash., assignor to Northwest Blower Kiln Co., Seattle, Wash., a Corporation of Washington. Filed July 20, 1921. Serial No. 486,283. 5 Claims. (Cl. 34-24.)

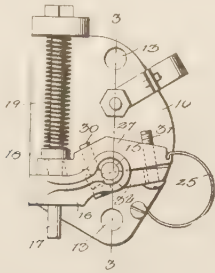


1. In combination, a kiln, a fan for circulating air through said kiln, a steam driven engine for operating said fan and means for delivering the exhaust steam from said engine to the current of air circulated by said fan and in advance of said fan.

1,423,137. MAKE-AND-BREAK IGNITION DEVICE. MILTON MURRAY, Williams Wharf, Va. Filed Oct. 28, 1920, Serial No. 420,248. Renewed Apr. 10, 1922. Serial No. 551,211. 3 Claims. (Cl. 123-164.)

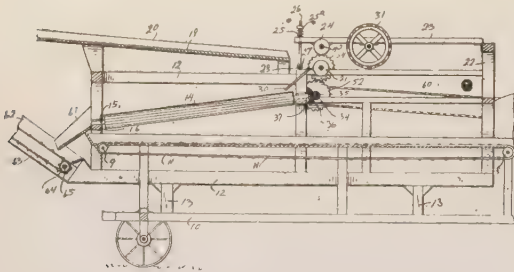
1. In a make and break ignition device including stationary and movable contacts and a rocker rod which carries the movable contact, a tappet controlled and spring actuated rocker arm including two parts one of which has a rocking adjustment with respect to the other and

has a flat surface engaging a flattened surface of the rocker rod, and means to adjust the rocking part of the



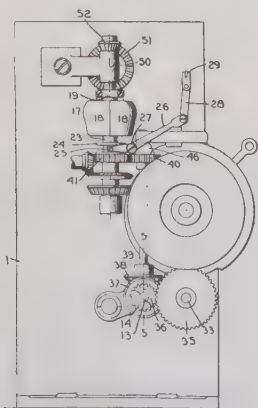
arm with respect to the other part and secure the same in adjusted position.

1,423,138. CORN-SNAPPING MECHANISM FOR SILO FILLERS. GEORGE F. NORTON and EDWIN A. ENDE. Mayville, Wis. Filed Feb. 26, 1920. Serial No. 361,602. 1 Claim. (Cl. 130—5.)



In a corn husking machine, the combination of a bottom frame work support having longitudinally extended horizontal side bars, a conveyor to operate substantially throughout the length of said frame work, an upper frame having laterally and longitudinally spaced standards resting removably upon said side bars, corn feeding and husking mechanisms mounted upon the forward portion of said upper frame and over the forward portion of said conveyor, snapping means and stalk deflecting means mounted on the rear portion of said upper frame and over the rear portion of said conveyor whereby both the husks and the stalks are received on said conveyor.

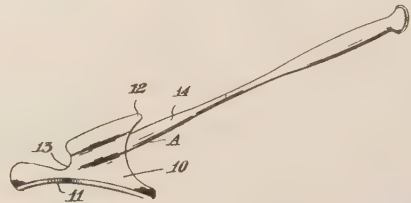
1,423,139. FIRE SHUTTER FOR MOVING-PICTURE MACHINES. JAMES H. O'BRIEN, Manchester, N. H. Filed Feb. 27, 1920. Serial No. 361,904. 5 Claims. (Cl. 88—19.4.)



1. In a moving-picture machine, the combination with film-actuating mechanism for feeding the film, of a fire

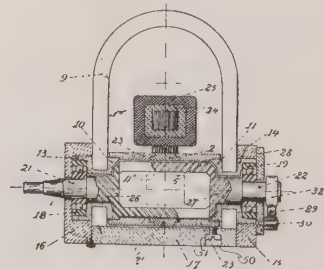
shutter, a centrifugal governor for controlling the shutter, governor-rotating means actuated directly and positively by the film, and means to apply continuously a braking action on the governor-rotating means sufficient to overcome the momentum of the governor and bring it to rest promptly when the governor-rotating means suddenly ceases to act, but insufficient to affect the action of said means normally.

1,423,140. BRUSH AND CHOPPING AX. OLUF ESACK OLESBERG, Bawlf, Alberta, Canada. Filed Jan. 29, 1920. Serial No. 354,768. 1 Claim. (Cl. 30—11.)



A brush ax comprising a brush bit having a curved cutting edge and an eye through the top of the bit in a plane angularly disposed to the plane of the cutting edge, and a curvature in said bit from the eye towards the cutting edge whereby direct contact with the ground by said cutting edge is avoided.

1,423,141. MAGNETO ELECTRIC MACHINE. CAMILLO OLIVETTI, Ivrea, Italy. Filed June 19, 1919. Serial No. 305,381. 9 Claims. (Cl. 171—209.)

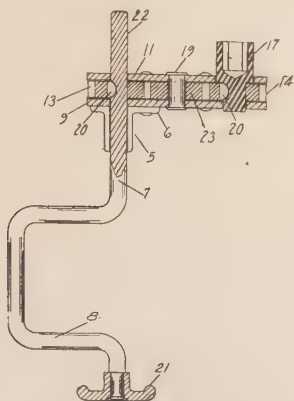


2. In a bi-polar magneto, in combination magnet poles; a core having a winding and a pair of poles; a rotor having means in permanent magnetic connection with the magnet poles and adapted to intermittently magnetically connect each of the magnet poles with one of the poles of the core when said means are directly in line therewith; and means for indirectly connecting the poles of the core magnetically to opposite magnet poles when said rotor means is in a position intermediate said poles of the core.

1,423,142. WRENCH. RALPH H. OWENS, Lincoln, Nebr. Filed Nov. 3, 1919. Serial No. 335,377. 8 Claims. (Cl. 81—57.)

1. In a wrench of the character described, a pair of spaced plates, a spur gear positioned between said plates, an operating shaft keyed to said spur gear and serving as a pivot therefor, a second spur gear between said plates and carrying a wrench element which protrudes beyond the outer surface of one of the plates, a third spur gear journaled between said plates and meshing with

both the aforesaid first and second spur gears, said operating shaft extending through and beyond the plate



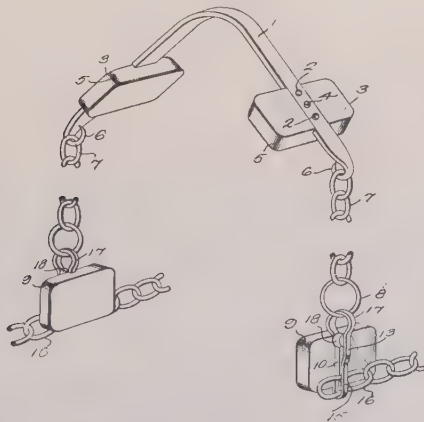
on the side of the wrench element to a distance greater than that of the wrench element, thereby serving as a pressure bearing while the wrench is in operation.

1,423,143. STRIP FOR FLOOR COVERINGS AND TILE LIKE. MARCUS PATTERSON, Brooklyn, N. Y. Filed Jan. 30, 1922. Serial No. 532,748. 6 Claims. (Cl. 16—16.)



3. A strip for holding the edges of floor covering, said strip having two flaps extending from one edge so as to grasp the edge of the floor covering, and having its other edge formed to provide an obliquely projecting ridge, said ridge being adapted to bind against a side wall on an upward tendency of the strip.

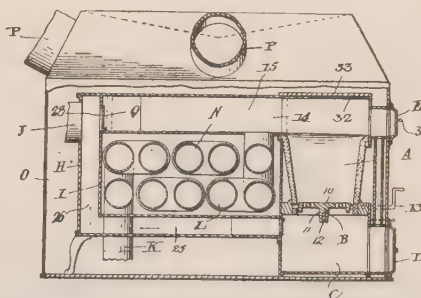
1,423,144. BACKBAND. RAYMOND W. PAUL, Pike Road, N. C. Filed July 14, 1921. Serial No. 484,748. 1 Claim. (Cl. 54—39.)



A back band comprising a pair of cushioning pads adapted to engage the back of a horse, said bands being provided with flat engaging surfaces, and being further provided with transverse grooves in their upper faces,

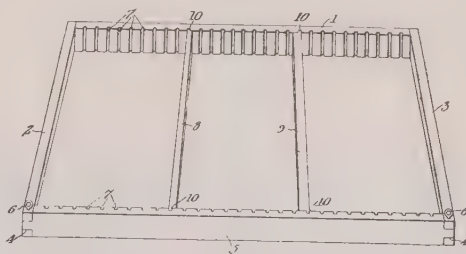
a substantially inverted V-shaped member, said member being provided with a plurality of openings adjacent each end to permit said cushioning pads to be secured thereto in various positions, the ends of said member being provided with inturned hooks, flexible connections secured to said inturned hooks, and a combined rein holder and trace carrier secured to the other end of said connections, each of said rein holder and trace carriers comprising a block, a member secured to said block comprising a pair of spaced sides, the lower portions of said sides being arranged relatively close to each other and adapted to receive a link of a trace chain, the intermediate portion thereof being relatively spaced to permit passage of a trace chain, and the upper portion being arranged to form a substantially circular portion for the reception of a rein, and a roller mounted beneath said substantially circular portion.

1,423,145. FURNACE. WILLIAM FRANKLIN PAYNE, Stratford, Ontario, Canada. Filed July 30, 1921. Serial No. 488,648. 9 Claims. (Cl. 126—109.)



1. In a furnace, a fire pot, a heating chamber, conduits leading the products of combustion across the top, down one end and backwardly and forwardly along the bottom of the heating chamber, and a serpentine heating coil in the heating chamber.

1,423,146. STEREOTYPE-CASTING FRAME. JOHN W. PECKHAM, Parkston, S. Dak. Filed Apr. 29, 1921. Serial No. 465,596. 6 Claims. (Cl. 22—5.)

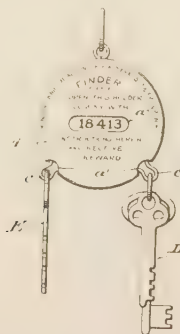


6. A stereotype casting frame, comprising a top member, a bottom member, and intermediate members, means on the inner faces of said top and bottom members and on the ends of said intermediate members whereby said intermediate members may be arranged within the frame formed by said top and bottom and end members to form a mold cavity, said top member being removable for the purpose of filling said cavity with metal.

1,423,147. KEY HOLDER. GEORGE R. PERRY, Washington, D. C. Filed Feb. 28, 1921. Serial No. 448,552. 9 Claims. (Cl. 59—96)

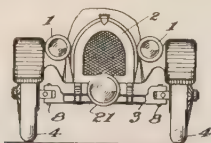
1. A key holder consisting of opposed disk-like members, each having a peripheral flange turned toward the

other member; said flanges being adapted to fit snugly one within the other for holding the two members together,



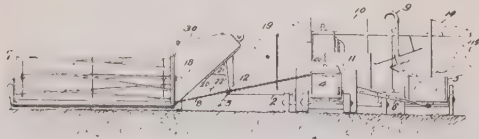
and means carried by one of said members for attaching keys thereto.

1,423,148. DIRIGIBLE HEADLIGHT FOR VEHICLES. RAYMOND A. PERRY, Oakland, Calif. Filed Oct. 17, 1921. Serial No. 508,278. 1 Claim. (Cl. 240—62.)



A dirigible headlight for vehicles, comprising a supporting bracket adapted for attachment to a front vehicle axle and provided on one face with an integral boss terminating approximately flush with the upper surface of the axle and formed with a vertical bore, a tubular post extending upwardly from and rotatably mounted on said boss, a bolt passing through said tubular post and boss and providing a vertical fulcrum for said post and affording a means for retaining said post on said boss, a lamp carried by and extending outwardly from one side of said post, an operating arm extended at right angles from the other side of said post over said axle, a split clamp detachably secured to the reach rod of the vehicle steering gear, a part extended laterally from one portion of said clamp in the plane of said arm and provided with a longitudinal slot, and a pin carried by the arm and extending into the said slot affording an operating connection between said reach rod and lamp.

1,423,149. EXTENSION FEEDER AND THRASHER. CHARLES C. PPISTER, Pawnee Rock, Kans. Filed Mar. 10, 1921. Serial No. 451,374. 5 Claims. (Cl. 56—20.)

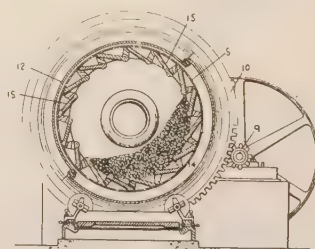


1. In an apparatus of the class described, the combination with a wheeled truck, of a platform provided with a central enlarged portion and with extensions projecting at right-angles from said central enlarged portion, a bin-box on said central enlarged portion contiguous to one of said extensions, a wagon contiguous to the bin-box and one of said extensions, a thrasher on the enlarged portion of the platform, and an extension, conveyors on the other extension of the platform and discharging into said thrasher, means for operating the thrasher and the conveyors, a grain conveyor connected to the thrasher and

adapted to discharge either into said wagon or said bin-box at the will of the operator, and means for connecting the wagon and the truck to a tractor.

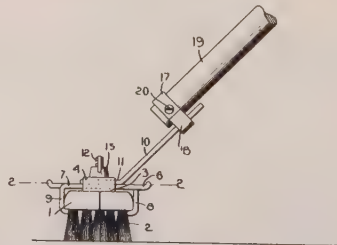
2. In an apparatus of the class described, the combination with a platform, of a conveyor on said platform contiguous to one edge, a mower conveyor extending over said first-mentioned conveyor, a brace hingedly connected to said mower conveyor and to said platform, and a spring connected at one end to said mower conveyor and at its other end to said brace for holding the mower conveyor in a set position with respect to the first-mentioned conveyor.

1,423,150. METHOD OF TREATING PULVERIZED FUEL. RALPH E. H. POMEROY, Canton, Ohio. Filed Dec. 14, 1921. Serial No. 522,360. 4 Claims. (Cl. 83—9.)



1. The method herein described of removing material from a pulverizer which consists in imparting a rotary tumbling movement to a loose mass composed of pieces of frangible material and balls of a more durable material causing streams or jets of air to traverse said mass in a direction opposed to the direction of movement of the mass and carry the reduced particles from between the elements composing the mass.

1,423,151. REMOVABLE HANDLE MECHANISM FOR BRUSHES OR BROOMS. WRIGHT PRESTWICH and ERNEST PRESTWICH, Lawrence, Mass. Filed Dec. 15, 1919. Serial No. 344,797. 4 Claims. (Cl. 306—1.)

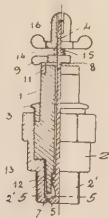


1. Removable handle mechanism for brushes comprising a frame having a back adapted to fit upon the head of the brush and provided with upwardly extending parallel flanges, gripping means to engage an edge of a brush, a handle holder having a member fitting between said flanges and provided with means to receive a handle and means for clamping said frame and handle holder to said brush head.

1,423,152. SPARKING PLUG FOR INTERNAL-COMBUSTION ENGINES. STEFANO REMUS, Genoa, Italy. Filed Oct. 2, 1920. Serial No. 414,314. 2 Claims. (Cl. 123—169.)

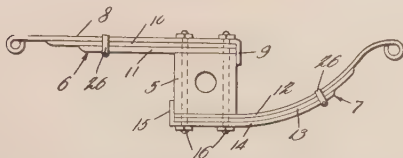
1. A spark plug comprising a body having a sleeve provided with means for mounting in the engine cylinder, an insulating part in said body, a rotatable rod passing through said insulating part and having means for con-

nection with the current feeding conductor, an inwardly projecting flange on the end of said sleeve, the edge of this flange being spiral shaped, a radial point on said rod in register with said flange the edge and point forming



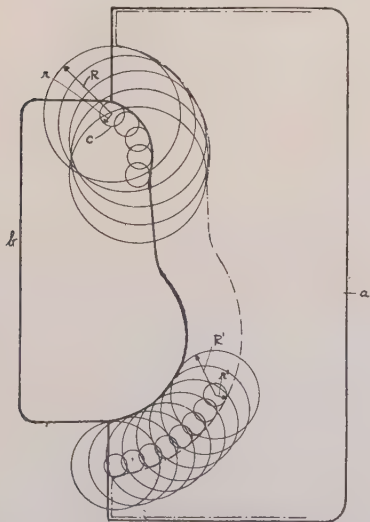
an adjustable sparking gap, a manipulating arm fixed to rotate with said rod, projections adapted to be engaged by said arm, means resiliently holding said arm engaged with said projections, and means for locking said arm and rod in adjusted position.

1,423,153. RUNNING GEAR. GEORGE R. RICHARDSON. Denbigh, N. Dak. Filed Aug. 10, 1921. Serial No. 491,253. 1 Claim. (Cl. 267—36.)



A spring vehicle comprising in combination with an axle housing, an upper spring section and a lower spring section, each of said spring sections including a plurality of leaves, one of the leaves of each section having a right angled extremity adapted to engage the axle housing, and means for securing the sections to the axle housing.

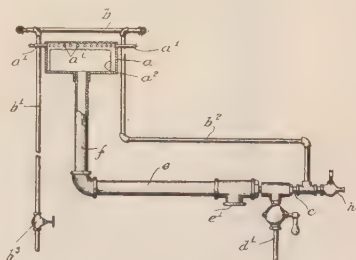
1,423,154. METHOD OF MANUFACTURING COUNTER PIECES TO GAUGES, FORMED BARS, PROFILE PIECES, AND THE LIKE. KARL ROSAK, Berlin, Germany. Filed Aug. 14, 1919. Serial No. 317,598. 1 Claim. (Cl. 90—13.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A method of manufacturing counter-pieces to gauges, former-bars, profile-pieces and the like consisting in

an auxiliary-gauge being at first copied from a pattern-piece gauge or the like, the operative edge of which is uniformly removed from that of the pattern-piece a distance equal to the difference between the radii of the copying tool and the guide-finger, and from this auxiliary gauge the proper counter-piece being copied by means of a milling cutter and a guide-finger the diameters of which are chosen in such a way that the sum of the radii of the same equals the difference of the radii of the tool and the guide-finger employed for making the auxiliary gauge.

1,423,155. GASEOUS-FUEL BURNER. WILLIAM RUFF. New York, N. Y. Filed May 15, 1920. Serial No. 381,655. 6 Claims. (Cl. 158—99.)



1. A gaseous fuel burner embodying therein a burner having openings therein, a steam generator adjacent said burner openings, an injector nozzle, means connecting said generator with a source of water supply, an outlet pipe leading from said generator to said nozzle, a tube having an injector nozzle surrounding said first named nozzle and communicating with a source of gas supply, and a mixing tube surrounding said tube and having an air inlet opening, said mixing tube delivering the mixture to said burner.

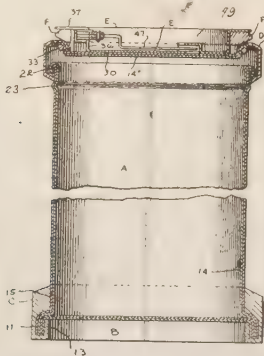
1,423,156. OUTGAUGE. EUGENE SCHMITT, Cincinnati, Ohio. Filed Apr. 1, 1920. Serial No. 370,518. 2 Claims. (Cl. 73—120.)



1. In an outgauge, the combination of a transparent tube having an opening in its lower portion and an opening in its upper portion, a support surrounding said tube and having viewing slots extending lengthwise of said tube at the respective sides of said support through which said tube is viewed, graduations at the respective sides of said respective slots, said support provided with walls respectively directly in rear of said respective slots, and

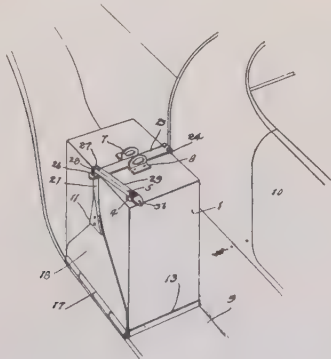
emphasizing marks extending lengthwise on said respective walls in rear of said tube opposite said respective viewing slots, the liquid in said tube magnifying said respective emphasizing marks.

1,423,157. CONTAINER WITH REMOVABLE LOCKING COVER. GOTTHILF H. SCHWARZ, Newark, and MAX VINTSCHGER, Ridgewood, N. J., assignors to The Pole and Tube Works, Inc., Newark, N. J., a Corporation of New Jersey. Filed Jan. 8, 1919. Serial No. 270,185. 11 Claims. (Cl. 220—61.)



1. A container comprising a peripheral main-body portion or annular-shell having an annular outwardly extending enlarged end portion; an end-piece for the shell having a peripheral outwardly extending annular-flange fitting tightly in the end of the shell; and an annular end-ring exteriorly tightly concentrically superposed upon the end of the shell and swaged inward, upward and then annularly outward tightly upon the outwardly extending annular-flange of the end-piece and the outwardly concentrically mounted end portion of the shell, so as to enclose such shell end-portion and end-piece flange in a ring-formed annular-chamber lying wholly outward of the inner annular peripheral surface of the upper portion of the end-ring concentrically fitting upon the exterior of the main-body portion of the shell.

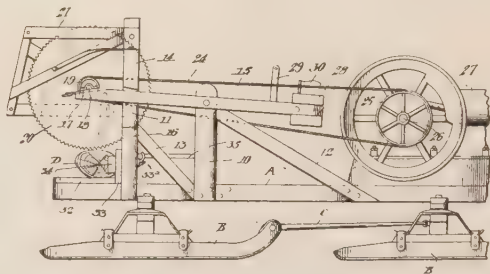
1,423,158. AUXILIARY GASOLINE TANK FOR AUTOMOBILES. DANIEL SEWELL, Edmonton, Alberta, Canada. Filed July 6, 1920. Serial No. 394,022. 6 Claims. (Cl. 224—29.)



4. In a motor vehicle, the combination with a fixed support, of a substantially rectangular auxiliary gasoline tank mounted on the support and provided at one of its upper corners with a filling inlet and discharge outlet opening, a cap closing the opening and a normally locked but releasable holder receiving the tank and holding it

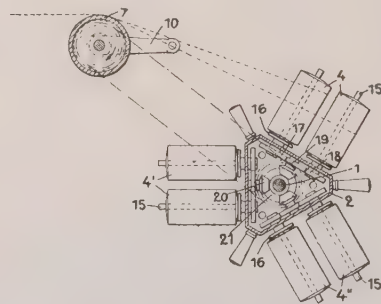
normally against removal from the support and locking the filling cap closed, said filling cap having to be unlocked prior to releasing the tank.

1,423,159. WOOD SAW. WILLIAM SHEPHERDSON, New Liskeard, Ontario, Canada. Filed Feb. 24, 1919. Serial No. 278,885. 2 Claims. (Cl. 143—46.)



1. A saw comprising a pair of standards, a frame pivotally mounted to the standards, a saw on one end of the frame, belt means for rotating the saw, hand grips on the opposite ends of the frame to the saw, balance means attached to the frame adjacent to the hand grips, a pair of standards located on opposite sides of the belt adjacent to the saw, a U-shaped cap on one of said standards having arms designed to co-act with the frame, a pair of stop members on the base of the second of said standards, an adjacent bracket below the saw and a stop block on the bracket, as and for the purpose specified.

1,423,160. THREAD-CHANGING DEVICE IN EMBROIDERY MACHINES. GOTTWALT SIEBER, Plauen, Saxony. Filed Sept. 22, 1921. Serial No. 502,463. 9 Claims. (Cl. 242—18.)

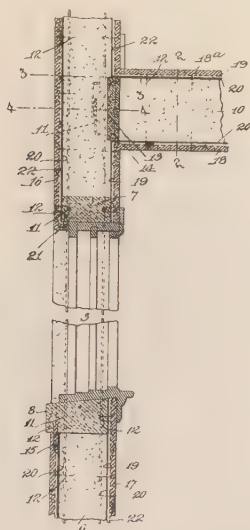


1. In a thread changing device for embroidery machines, the combination of thread spools, carriers for said spools, means for driving said spools, a thread tensioning roller and means for jointly driving said spool-carriers and thread tensioning roller, substantially as described.

1,423,161. BUILDING CONSTRUCTION. JOHN T. SIMPSON, Newark, N. J. Filed Feb. 1, 1918. Serial No. 214,836. 6 Claims. (Cl. 12—1.)

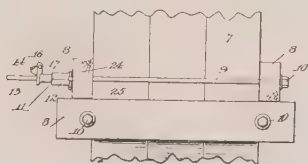
1. A structure comprising field cast reinforced concrete elements and shop cast reinforced concrete members united to form a monolithic framework, metal lathing, waterproof material between the lathing and framework, spacers disposed between said material and said lathing,

and connecting wires embedded in said framework, anchored to the reinforcements thereof, and extending



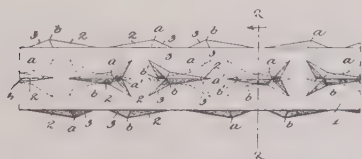
therefrom to extend through the lathing and material to securely anchor such lathing and spacers in position.

1,423,162. TIGHTENER. JOHN T. SIMPSON, Newark, N. J. Filed Apr. 1, 1920. Serial No. 370,448. 2 Claims. (Cl. 254—67.)



1. A device of the class described having an internally threaded tubular actuating member, an externally threaded tubular movable member adapted to receive a rod, an anchoring member on said movable member for anchoring said movable member in place on the rod, an enlargement on the end of said actuating member, a washer, and fingers on said washer for engaging said enlargement, said engagement permitting relative rotation of the washer and actuating member.

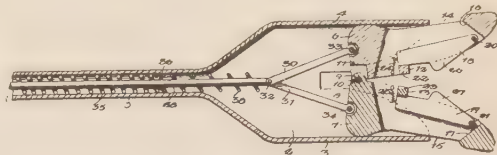
1,423,163. DEFORMED REINFORCING BAR. JOHN THOMAS SIMPSON, Newark, N. J. Filed Dec. 28, 1920. Serial No. 433,625. 6 Claims. (Cl. 72—111.)



1. An article of the character described, comprising an elongated body, a plurality of protuberances on the body, each protuberance having at least three salients extending parallel to the plane of the surface of the body, one at least of said salients extending longitudinally in

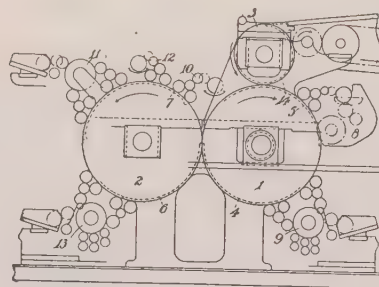
the plane of the axis of the body, and one at least of the reentrant angles of the protuberance having each of its sides at an acute angle to the longitudinal axis of the body.

1,423,164. TRACTOR HITCH. OLAF B. SKONNORD, Valley City, N. Dak. Filed Dec. 2, 1921. Serial No. 519,467. 6 Claims. (Cl. 280—33.15.)



4. A device of the character described, comprising a casing adapted at one end for connection with a traction device and having a slot in its other end adapted to receive a coupling element, hingedly connected complementary carrying plates slidably disposed in said casing, spring controlled latching plates carried by said carrying plates for closing the slot when said carrying plates are in retracted positions in the casing, and means arranged between said carrying plates and the casing for resisting a force tending to move said carrying plates from retracted positions, said last named means being arranged to yield when subjected to an excessive load.

1,423,165. ROTARY LITHOGRAPHIC PRINTING MACHINE FOR DIRECT OR OFFSET PRINTING. CARL LOUIS STERN, London, England, assignor to Linotype and Machinery Limited, London, England. Filed Oct. 7, 1921. Serial No. 506,024. 5 Claims. (Cl. 101—137.)

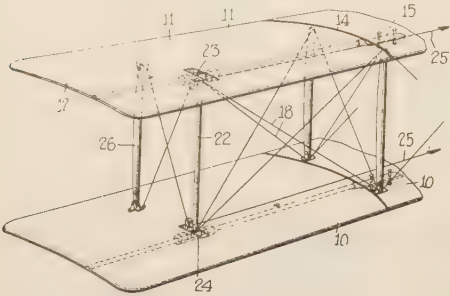


1. In a rotary lithographic printing machine, the combination with two plate cylinders both of the same diameter, an impression cylinder of half that diameter, two plate-carrying surfaces on each plate cylinder adapted to co-act directly with the corresponding plate-carrying surfaces of the other plate cylinder and mechanisms adapted to damp and ink with respectively different colours two plates on one of said cylinders, of mechanisms adapted to damp and ink a single plate on the other of said cylinders.

1,423,166. TRANSVERSE AXIS AILERON. JOHN P. TARBOX, Garden City, N. Y., assignor to Tarbox Safety Aircraft Company, a Corporation of Delaware. Filed June 20, 1918. Serial No. 240,981. 6 Claims. (Cl. 244—29.)

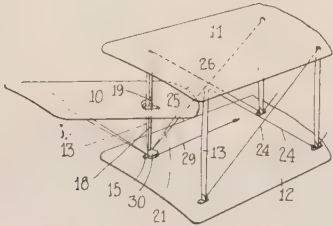
3. In a biplane, ailerons in lateral extension of each of the wings thereof, fixed interwing struts between the main supporting surfaces, aileron axis supporting members extending laterally from the main surfaces and rigidly connected therewith at points intermediate the front

and rear end struts, a vertical strut rigidly interconnecting the said axis supporting members, and cross wiring



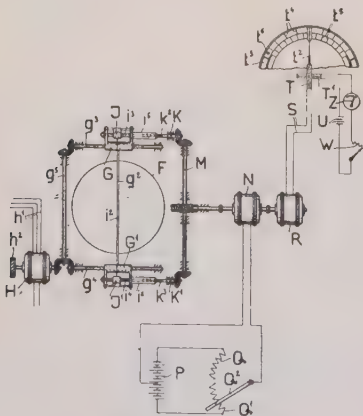
between the upper and lower ends of said interwing struts and the lower and upper ends of said axis connecting strut respectively.

1,423,167. VERTICAL-AXIS AILERON. JOHN P. TARBOX, Garden City, N. Y., assignor to Tarbox Safety Aircraft Company, a Corporation of Delaware. Filed June 20, 1918. Serial No. 240,983. 13 Claims. (Cl. 244—29.)



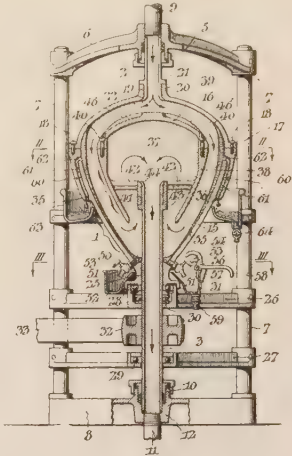
1. In an airplane, a vertically extending strut of streamlined section, and a vertical axis aileron having an axis streamlined by said strut.

1,423,168. TELESCOPE DEVICE FOR DETERMINING THE ANGLE OF ALLOWANCE IN FRONT ON ATTACKING A MOVING TARGET. HANS TECHEL, Kiel, Germany, assignor to Fried. Krupp Aktiengesellschaft Germaniaerft, Kiel-Gaarden, Germany. Filed Dec. 8, 1920. Serial No. 429,160. 6 Claims. (Cl. 235—61.)



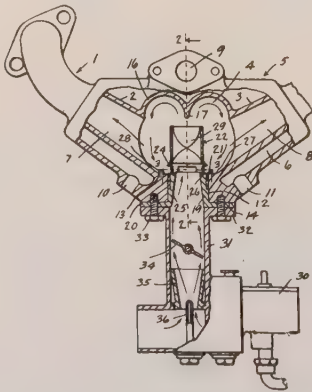
1. In a sighting telescope used against a moving target, a cross-hair mounted to be displaced transversely to the telescope axis; a driving member positively connected with said cross-hair, an indicator for reading the "corrected angle", and means transmitting the speed of the driving member to the indicator.

1,423,169. CENTRIFUGAL SEPARATOR OR AMALGAMATOR. RUSSELL THAYER, Philadelphia, Pa. Filed May 10, 1921. Serial No. 468,228. 13 Claims. (Cl. 83—67.)



1. An apparatus of the character described, comprising a closed, hollow, rotating shell through which value bearing pulp is passed under pressure, said shell having the form of a conoid affording an extended smooth interior surface over which mercury may spread itself as a thin film of varying thickness under action of centrifugal force due to rotation; and means for supporting said shell for rotation about its axis.

1,423,170. HOMOGENIZER. ERNEST M. WHITE, Los Angeles, Calif. Filed July 8, 1918, Serial No. 243,917. Renewed July 1, 1921. Serial No. 482,003. 5 Claims. (Cl. 48—186.)

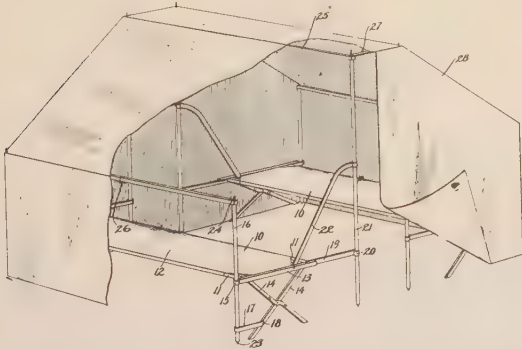


1. A homogenizer consisting of means forming a vortex chamber, the upper part of the chamber being an annular arch forming a central point, the chamber having a vertical intake passage, a mixing tube within the vortex chamber and discharging against said point, and a plurality of outlets, one of which discharges into the mixing tube.

1,423,171. TENT AND BED. FLETCHER AMES, Berkeley, Calif. Filed May 11, 1921. Serial No. 468,491. 2 Claims. (Cl. 5—5.)

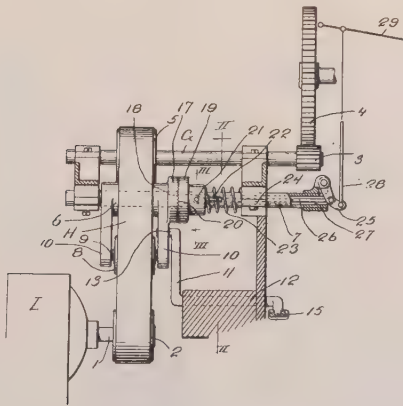
1. The combination with a cot, a set of upper and lower rigid arms having connection at each outer corner of the cot, one arm of each set being pivoted to the cot, each arm having a rigid ring at its outer end, tent posts passing en-

tirely through the ring members of said sets of arms and engaging the ground at their lower ends and unconnected with the ring members, a foldable ridge pole connecting said posts, another set of upper and lower rigid arms having connection with each inner corner of the cot, the uppermost arm of each second set of arms being pivotally connected to the cot and having a ring member at its outer end, said last mentioned pivoted arms being formed upon a curve, and when extended, being directed upwardly and



outwardly with its ring member disposed in vertical alignment with the respective ring member of the respective lower arm, tent posts passing through the ring members of said second sets of arms and unconnected with the ring members and longer than the aforesaid tent posts and at their lower ends engaging the ground, a ridge pole connection between the longer posts, the pivoted arms and their ring members being sustained in extended positions by the posts, and a tent covering for the structure.

1,423,172. RATCHET CLUTCH FOR DRIVE MECHANISM. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed May 28, 1919. Serial No. 300,303. 5 Claims. (Cl. 64—5.)

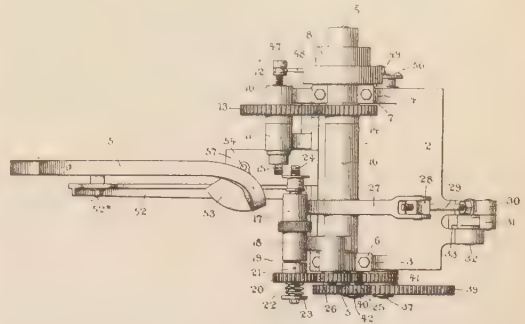


1. The combination with a drive pulley, a driven pulley, a slack belt extending between said pulleys, and a belt-tightener movable into and out of belt-tightening position, of means whereby to retain the belt-tightener in belt-tightening position, and said means comprising parts cooperative to retain the belt-tightener only at a degree of tightness which is less than its maximum tightness.

1,423,173. CAP-FEEDING DEVICE FOR THREADING MACHINES. GUSTAV FABIAN ANDERSON, Brooklyn, N. Y., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 30, 1919. Serial No. 320,882. 3 Claims. (Cl. 153—72.)

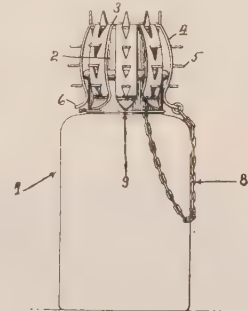
1. Apparatus of the character described comprising, a chute for the caps, threading means, a spring plunger car-

ried by the chute for limiting the downward feed of the caps therein, an oscillating plate arranged to receive a cap from the chute and place it on the threading means, and a



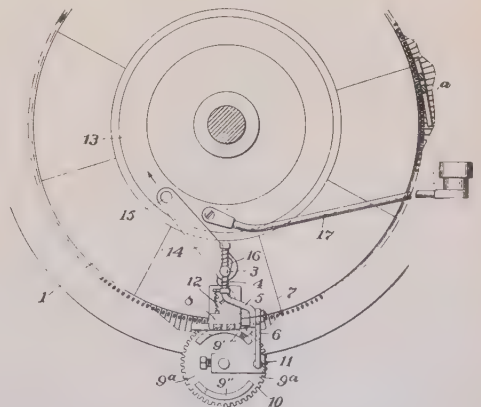
cam carried by said plate and fitted to engage the said plunger for permitting the caps to be fed one at a time from the chute to said plate.

1,423,174. POISON-BOTTLE CAP. WILLIAM HENRY ARMSTRONG, New Orleans, La. Filed July 22, 1920. Serial No. 398,086. 8 Claims. (Cl. 215—9.)



1. The combination with a bottle having a closure means, of an indicator of the class described comprising bottle gripping means and an intermediate portion engaging with said closure means to determine the extension of the gripping means upon the bottle and preventing removal of said closure without displacement of the indicator.

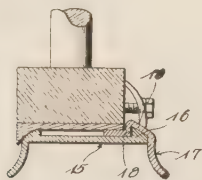
1,423,175. KNITTING MACHINE. HERBERT T. BALLARD, Norristown, Pa. Filed Jan. 22, 1920. Serial No. 353,195. 4 Claims. (Cl. 66—22.)



1. In combination, in a circular rib knitting machine, a dial wing cam and means for adjusting the same to make

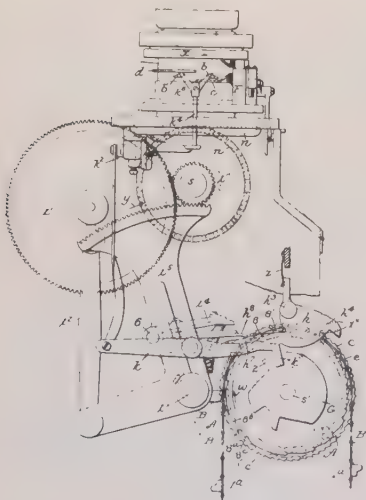
a plurality of groups of courses, each made up of alternate sections of tuck and plain rib with the changes beginning on different wales on the successive courses, and for making groups of courses all of one stitch between the courses of alternate tuck and plain rib knitting, and beginning and ending the sections of alternate knitting on different wales in the successive group courses of alternate knitting to produce diamond shaped spots staggered vertically in one row from those of the adjacent rows, substantially as described.

1,423,176. DEMOUNTABLE RIM. WALTER E. BERMAN, Laporte, Ind. Filed Dec. 29, 1921. Serial No. 525,562. 6 Claims. (Cl. 301—35.)



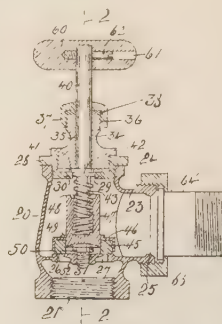
1. A demountable rim comprising an endless flanged section, a flanged self-contracting transversely split section telescoping within the first named section, the abutting ends of said split section being beveled and overlapping one another, and co-acting means between the endless section and one end of the split section for maintaining the ends in engagement with one another and for connecting the two sections together.

1,423,177. CIRCULAR STOCKING MACHINE. GEORGE P. BOSWORTH, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed June 4, 1914, Serial No. 843,062. Renewed Dec. 19, 1917. Serial No. 207,982. 17 Claims. (Cl. 66—24.)



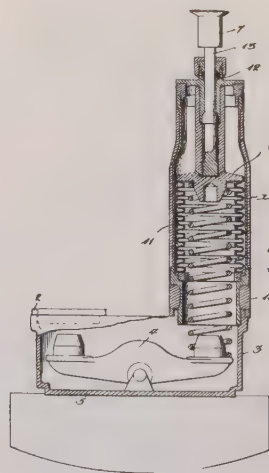
17. In combination, in a circular hosiery knitting machine, a needle cylinder, a knitting cam carrier, means to rotate and to oscillate said needle cylinder with respect to said knitting cam carrier in the knitting of the leg, heel, foot and toe of the stocking or hose, a narrowing pick, a widening pick, a pattern member, and connections for positively moving said widening picker from said pattern member to render said pick operative, said connections acting upon the reverse stroke of the needle cylinder.

1,423,178. VALVE. TOM BRABSON, Brooklyn, N. Y. Filed Feb. 25, 1919. Serial No. 279,122. 1 Claim. (Cl. 251—48.)



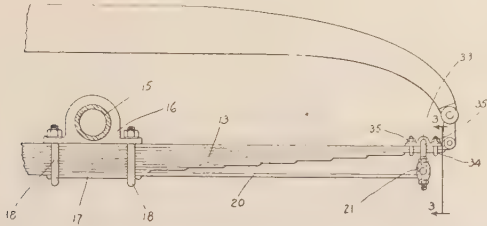
The combination of a valve casing having a valve seat with a port, a cup shaped bushing having a central opening and an interior and an outer thread, the latter thread in engagement with the upper end of the casing, a cap with a thread at its upper end and a thread at its lower end, the latter thread engaging the interior thread of said bushing, a cap nut for the thread at the upper end of the cap, a valve spindle extending through said cap and bushing and having a threaded portion at its lower end, said valve spindle having a disc flange and collar formed therewith, said disc flange held in place between said cap and bushing and said collar extending into the central opening of the bushing, a floating support having a pair of guide lugs and in threaded engagement with the threaded portion of the valve spindle and having a shoulder formed at its upper end, and a valve at its other end, the shoulder at the upper end of the support bearing against the lower face of said bushing when said support is in its uppermost position and an element coacting with the guide lugs of the support to maintain it in operative position, the said guide lugs separated from said element by clearance spaces.

1,423,179. DEPTH GEAR FOR TORPEDOES. HUGH M. BRANHAM, Brooklyn, N. Y. Filed Mar. 25, 1921. Serial No. 455,539. 3 Claims. (Cl. 114—25.)



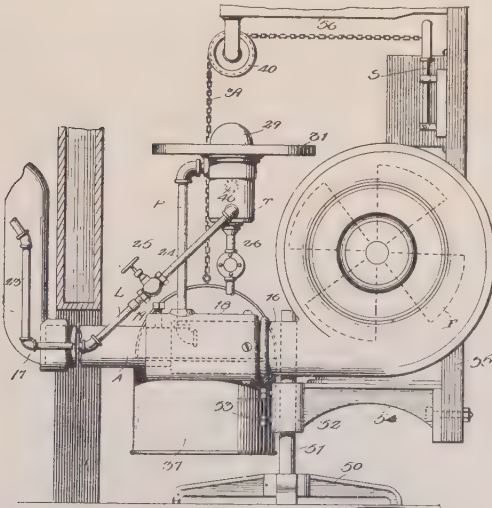
1. In a torpedo, in combination, a housing for the spring balance of the depth control mechanism, a spring within the housing, means for adjusting the tension of the spring and means interposed between the adjusting means and the housing for excluding the pressure of gases in the after-body from the interior of said casing.

1,423,180. EQUALIZER FOR VEHICLE SUSPENSION. WILLIAM E. BROBST, Jr., Noblesville, Ind. Filed Aug. 29, 1921. Serial No. 496,445. 4 Claims. (Cl. 267-45.)



2. In an equalizer spring construction for a vehicle suspension, the combination with a main spring, and an equalizer spring, of a spring-eye pin for supporting the end of said equalizer spring, of a socket for said pin, means for supporting said socket on said main spring, and means for adjusting said socket on said supporting means.

1,423,181. OIL-BURNING APPARATUS. ALBERT PRESTON BROOMELL, York, Pa.; Janet L. Broomell executrix of said Albert Preston Broomell, deceased. Filed Mar. 19, 1921. Serial No. 453,663. 6 Claims. (Cl. 158-36.)

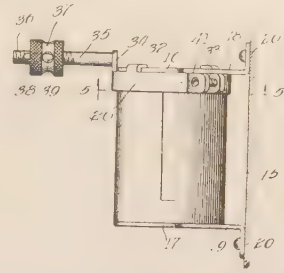


1. An oil burning apparatus, comprising, a burner, means for supplying air under pressure to the burner, an oil reservoir connected to and disposed below the burner, means connecting the first means with the reservoir to cause said means to force the oil from the reservoir to said burner, a source of oil supply connected to the reservoir, a float operated control valve between the reservoir and the source of supply, and positive means acting to close said control valve, the last means being operable by the second means to allow of the opening of said control valve.

1,423,182. BRACKET FOR PRINTOMETERS. CARLTON E. BROWN, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 432,061. 9 Claims. (Cl. 234-1.5.)

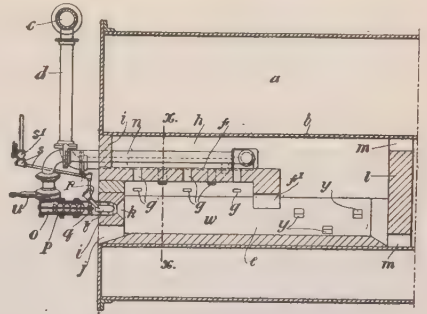
1. In a printometer, a base, operating mechanism including a solenoid mounted on the base, a bell-shaped glass cover for engaging the base and enclosing the operating mechanism, one end of the solenoid lying substantially under the center of the bell shaped cover, a post

for holding the cover upon the base, and a separable clamp for clamping the end of the solenoid, said clamp



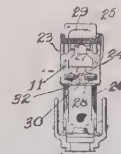
supporting the post, and having ears for aligning the clamp upon the end of the solenoid and having screws for closing the clamp.

1,423,183. APPARATUS FOR THE LIQUID-FUEL FIRING OF STEAM BOILERS. WILLIAM MURRAY BURDON, Bellshill, Scotland, assignor to Burdons Limited, Bellshill, Scotland. Filed Apr. 7, 1920. Serial No. 372,004. 5 Claims. (Cl. 158-4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



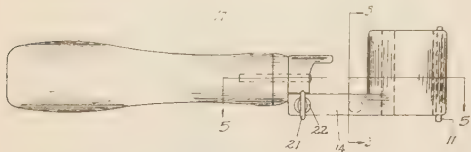
1. A steam boiler furnace adapted to be fired by liquid fuel having two chambers therein a heating chamber and a combustion chamber, a wall separating the chambers and having openings therethrough, a device for delivering liquid fuel in admixture with air into the combustion chamber, a main air supply pipe, and branch pipes passing into the heating chamber and then to the device.

1,423,184. LUMINOUS GUN SIGHT. JOHN S. BUTLER, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Nov. 20, 1918. Serial No. 263,397. 2 Claims. (Cl. 33-52.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. An attachment for a rear gun sight; said sight characterized by a leaf, a slide adjustable on said leaf, the slide including an apertured sighting bridge and an upper bridge, including side and upper bridge engaging members, spring means interposed between said members for forcing the same into engagement with the side and upper bridge members and sight aperture illuminating elements carried by said spring means.

- 1,423,185. AIR-BRAKE HANDLE. WILLIS E. CADY, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,897. Renewed Apr. 13, 1922. Serial No. 552,380½. 3 Claims. (Cl. 74—33.)



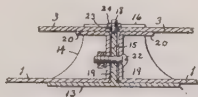
1. An air brake handle comprising a socket bearing head formed from a plurality of sections pivotally connected together adjacent their outer ends; a handle rigidly fixed on the inner end of one of said sections; a set screw positioned through one of the said sections and engaging a bore provided in the other of the said sections for adjusting the relative position of said sections to each other; and a resilient member positioned in each of said sections for forcing one of said sections outwardly upon releasing said set screw, substantially as described.

- 1,423,186. VEHICLE FENDER. HARRY CAPLAN, Detroit, Mich. Filed Oct. 22, 1921. Serial No. 509,643. 10 Claims. (Cl. 293—55.)



8. A fender for vehicles comprising a flat bar having two points of support at equal distances from its ends, the bar extending outwardly from such points of support and then being folded on itself at points equally distant from its ends so that said ends extend in the same plane and overlap, said folded portions being offset vertically in opposite directions to space them apart and the central portion of the bar being curved so its middle point is in the same plane as said folded portions, said ends and the middle point of the bar being notched to receive bolt shanks and also formed with depressions and the folded portions of the bar also being formed with depressions adjacent the other depressions, and bolts extending through said notches and having pins extending into said depressions to secure the several parts of the bar together.

- 1,423,187. AUTOMOBILE FENDER. HARRY CAPLAN, Detroit, Mich. Filed Oct. 22, 1921. Serial No. 509,644. 9 Claims. (Cl. 293—55.)

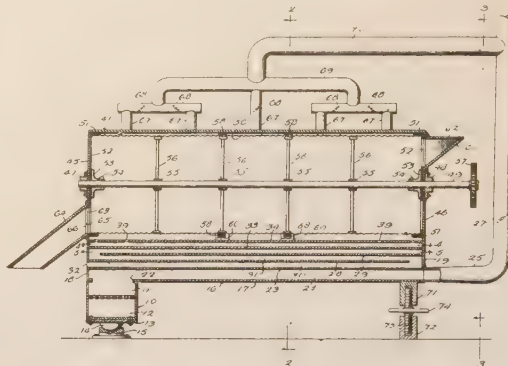


5. A fender consisting of a flat metal bar bent into the form of a flat loop and brackets to support the same, the ends of the bar meeting at the middle of one of the sides of the loop and being bent back on themselves, and a coupling device uniting the ends of the bar and the other flat side of the loop and embodying a bolt extending through holes in the ends of the bar, the brackets being attached to one of said flat sides at equal distances from the ends thereof.

- 1,423,188. DEHYDRATOR. WILLIAM O. CARDIN, Joplin, Mo., assignor to J. W. Freeman, Joplin, Mo. Filed Nov. 23, 1920. Serial No. 426,060. Renewed Dec. 21, 1921. Serial No. 523,881½. 7 Claims. (Cl. 34—5.)

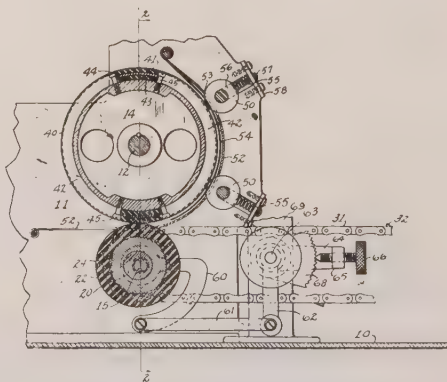
1. In a device of the character described, a heating unit, a heater casing, said heater casing comprising a

flue communicating with said heating unit, a plurality of staggered baffle plates, a plate mounted above said baffle plates and provided with relatively large openings, and a distributing plate mounted above said last named plate



and provided with relatively small openings, said heater casing being provided with an air intake opening, a casing mounted above and communicating with said heater casing, and means carried within said last named casing for supporting the material to be dried.

- 1,423,189. IMPRESSION MECHANISM FOR ADDRESSING MACHINES. CLIFTON CHISHOLM, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 29, 1920. Serial No. 420,415. 12 Claims. (Cl. 101—54.)

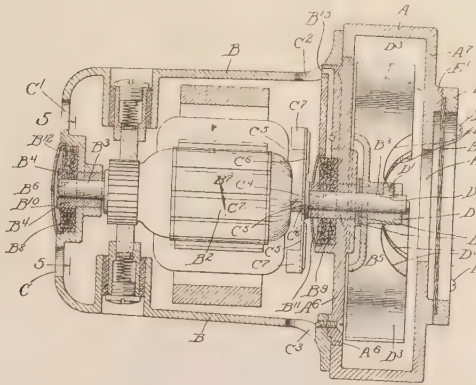


1. In a mechanism of the character described, the combination with an impression roller, of a coating roller drum having on its surface a plurality of arcuate platen members, arcuate strips on the drum between said platen members, and feeding rollers bearing on the strips.

- 1,423,190. BLOWER. GEORGE CLEMENTS, Chicago, Ill., assignor to Clements Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 1, 1921. Serial No. 481,963. 6 Claims. (Cl. 230—11.)

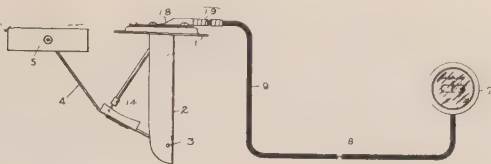
1. A cleaner comprising a fan casing and a fan adapted to rotate therewithin, an air outlet therefor, a motor casing associated with said fan casing, an airtight partition therebetween, a rotor adapted to rotate within said motor casing, a rotor shaft projecting through the partition be-

tween the motor and the fan casing, the fan being mounted on the outer end of said shaft, an air inlet in the outer



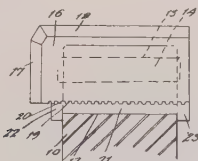
side of said fan casing opposite the end of shaft, a plurality of ventilating apertures adjacent either end of said motor casing.

1,423,191. FLUID GAUGE. JOHN G. COLLISON, JOHN W. WRIGHT, and HARRY M. FILBERT, Dayton, and WALTER FRANK, Miamisburg, Ohio, assignors to The Stemco Engineering Company, Dayton, Ohio, a Corporation of Ohio. Filed June 25, 1920. Serial No. 391,709. 7 Claims. (Cl. 73—82.)



1. A fluid gauge wherein the rise and fall of a float within a tank is indicated at a distant point by the to and fro movement of an intermediate reciprocatory flexible member acting through a curvilinear path of travel under the influence of the float, characterized by a tubular guide for the reciprocatory member, a collar loosely surrounding the reciprocatory member bearing upon the end of the tubular guide, a cap enclosing the end of the tubular guide and said collar, and a body of packing material surrounding the reciprocatory member within the cap intermediate the head of the cap and said collar.

1,423,192. MILLING TOOL. CLINTON J. CONVERSE, Bridgeport, Conn. Filed Oct. 20, 1920. Serial No. 418,244. 7 Claims. (Cl. 29—105.)

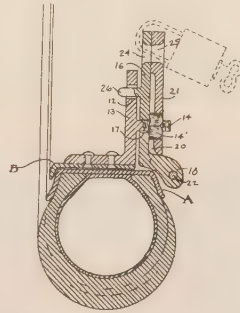


1. A milling tool comprising a body, a tooth mounted rigidly and releasably in the body, and means having rigid connection with the body and so interlocked with the body to avoid movement thereof in the direction of the axis of the body, said means having interlocking detachable engagement with said tooth and adapted when detached from said tooth to permit the tooth to be moved approximately parallel with the axis of the body at the same time permitting of its interlocking engagement in various positions of axial adjustment.

1,423,193. CARBON BLACK AND METHOD OF PRODUCING SAME. AUGUSTUS STEIGER COOPER, Santa Barbara, Calif. Filed Jan. 19, 1922. Serial No. 530,376. 4 Claims. (Cl. 134—60.)

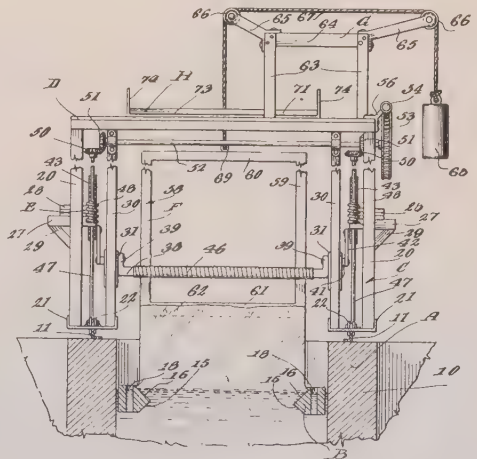
4. The method of producing carbon-black, consisting of grinding brown bitumen bearing sands, blowing the bitumen therefrom, and heating the finely comminuted bitumen thus obtained to form a carbon-black.

1,423,194. LOCKING DEVICE. CLAUDE M. CORRETT, Port Arthur, Tex. Filed Aug. 8, 1921. Serial No. 490,625. 2 Claims. (Cl. 70—122.)



1. A device of the character described comprising a body having an opening therein for receiving the bolt of a fire carrier, a projection on the body for engaging a hole in the fire carrier, a hasp connected to the body, means in connection with said hasp for preventing the rotation of the nut on said bolt and means for locking the hasp in closed position.

1,423,195. SHEET-GLASS-DRAWING MACHINE. ORA M. COX, Manayka, and CONNIE C. ROSE, Clarksburg, W. Va. Filed Feb. 25, 1920. Serial No. 361,129. 18 Claims. (Cl. 40—17.)



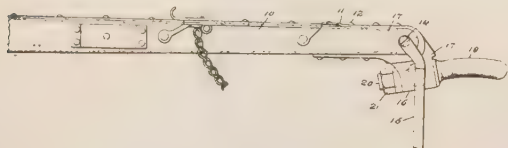
10. In a sheet glass drawing machine, a frame, a pair of spaced guides located at the opposite sides of the frame, superposed blocks slidably mounted in the guides, worm wheels rotatably carried by the frame, rotatable vertical shafts arranged in the opposite sides of the frame, worms keyed to the shaft and meshing with the wheels, means for connecting the shafts together for synchronous movement, connecting rods operatively connected to the worm wheels and to the sliding blocks, inwardly extending rigid arms carried by the sliding blocks, movable arms carried by the sliding blocks, crank arms pivotally carried by the sliding block, and connected to the movable clamping arm,

and means operatively connecting the crank arms to the connecting rod.

16. In a machine for drawing glass from molten glass container, a bait including a substantially rectangular open frame having side bars, and end bars, one of the end bars having a horizontal line of perforations therein.

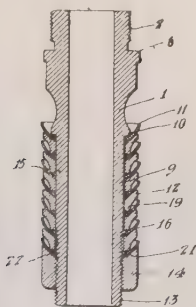
18. In a sheet glass drawing machine, a substantially rectangular formation anchor including side walls and end walls, the end walls having the upper and lower faces thereof inclined inwardly in opposite directions, the said inclined faces being bevelled inwardly toward the central longitudinal axis of the block, the end walls having vertical openings extending therethrough in direct alignment with the longitudinal axis of the anchor.

1,423,196. LUNETTE BRACKET. LOUIS B. CRAIG, Davenport, Iowa. Filed Nov. 3, 1920. Serial No. 421,608. 5 Claims. (Cl. 278—50.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



5. A lunette bracket, including a part adjustable to the center rail of a caisson, an offset depending from the bracket, said offset provided with a bore, a lunette having a shank formed to fit the bore and means for binding the shank in place.

1,423,197. PUMP PLUNGER. EDWARD COE CRITCHLOW, Orcutt, Calif. Filed July 11, 1921. Serial No. 483,695. 1 Claim. (Cl. 103—63.)

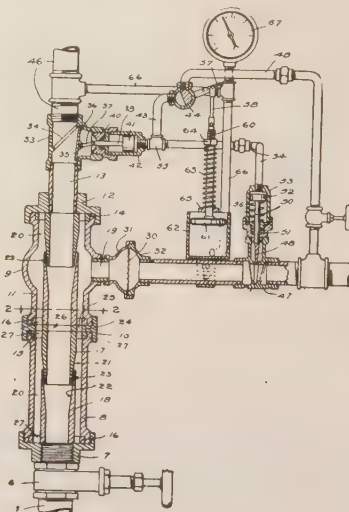


In a pump plunger, the combination of a tubular member, spring metal packing cups on the tubular member, the greatest diameter of said cups being only at their rims, said cups being concave interiorly and convex exteriorly, spacing rings between adjacent packing cups and of less diameter than said cups, said rings having internal beveled faces engaging the outer faces of the cups and said rings having portions of externally reduced diameter engaging the inner faces of the cups, there being only annular line contact between the inner faces of the cups and the outer faces of the rings and there being spaces between the cups and rings for the entrance of liquid to the cups, and means to hold the cups and rings in place.

1,423,198. VACUUM JET AND SYSTEM OF OPERATING THE SAME. THOMAS L. DAVENPORT, Everett, Wash. Filed Feb. 25, 1919, Serial No. 279,200. Renewed Mar. 31, 1921. Serial No. 457,491. 3 Claims. (Cl. 230—13.)

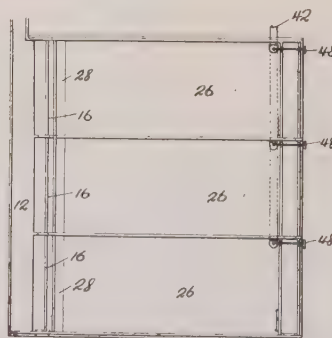
1. A vacuum jet of the class described, comprising an outer casing having a fluid inlet passageway and provided

with a cylindrical passageway therethrough that is counterboard at each end to form a seat, a tubular member having an annular flange on one end adapted to fit within the seat in one end of said casing to center said tubular member within said casing the inner walls of the end of said tubular member opposite said flange being flared, another tubular member having an annular flange



on one end adapted to fit within the seat in the opposite end of said casing said other tubular member having a tapered end adapted to project within the flared end of said first named tubular member so that a narrow annular space is left therebetween, caps on the ends of said outer casing and adapted to engage with and hold said tubular members and inlet and outlet pipes connected with said caps.

1,423,199. FIBER SAVER. AUGUST DEZELA, Vancouver Island, British Columbia, Canada. Filed Nov. 12, 1920. Serial No. 423,589. 3 Claims. (Cl. 92—28.)

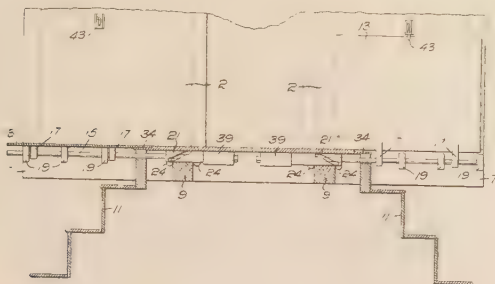


1. A pulp saver comprising a tank having inlet means, a partition arranged within the tank and dividing the same into sediment and pulp receiving compartments, and a transversely inclined baffle arranged in said pulp collecting compartment adjacent said partition and adapted for directing the inflowing liquid downwardly.

1,423,200. CAR DOOR. GEORGE DONAHUE, Hyde Park, Mass., assignor, by mesne assignments, to Frederick L. Emery, Lexington, Mass. Filed Sept. 13, 1910, Serial No. 581,851. Renewed Dec. 26, 1919. Serial No. 347,634. 18 Claims. (Cl. 105—433.)

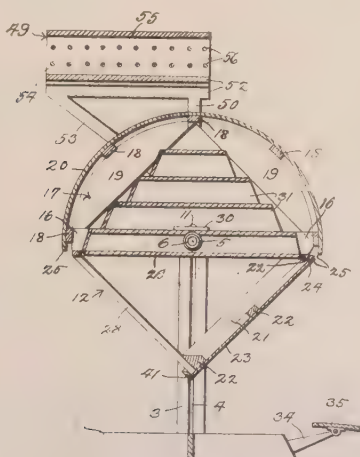
1. The combination with a car platform, of steps leading therefrom, a swinging tread door for bridging a

space above said steps between said car platform and a station platform, a horizontal hinge for said tread door.



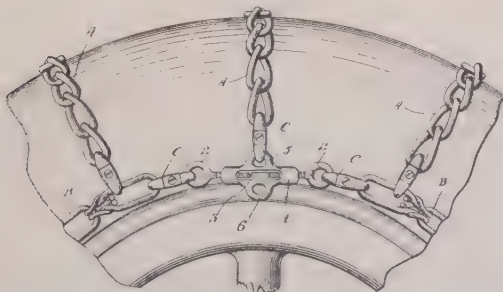
and means outside of said space to shift said door to and from its active bridging position.

1,423,201. CARD AND SIGN OR POSTER PAINTER'S WORKBENCH. HERBERT R. ELLIS, Fredericksburg, Va. Filed Nov. 13, 1920. Serial No. 423,895. 12 Claims. (Cl. 45—129.)



1. A revolving sectional bench for use by artists, draftsmen, sign, show card and poster painters or the like, comprising drums, means for rotatably supporting the same, means for coupling the drums, and means for revolving the drums and holding the same against movement.

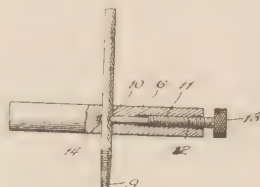
1,423,202. TIGHTENING DEVICE FOR ANTISKID CHAINS. PERRY E. FELLOWS, Rochester, N. Y. Filed July 25, 1921. Serial No. 487,304. 3 Claims. (Cl. 85—365.)



1. An adjusting device for antiskid tire chains comprising a body portion having a laterally arranged mem-

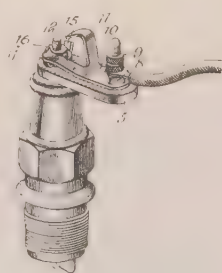
ber for the attachment of the cross chain and an adjustable member at each end adapted for connection with the adjacent end of the side chain.

1,423,203. FISH STRINGER. DAVID FISKE, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,722. 1 Claim. (Cl. 224—7.)



A fish stringer comprising a flexible string, a cross bar having a transverse opening extending therethrough, and a socket extending longitudinally of the bar and connecting with said transverse opening and a bolt threadedly engaging said longitudinal socket and adapted to impinge against said string to detachably secure the cross bar on the string, said flexible string capable of being moved in opposite directions through the transverse opening.

1,423,204. SPARK INTENSIFIER. MARSHALL J. FREEMAN, East Orange, N. J. Filed Sept. 9, 1920. Serial No. 409,159. 3 Claims. (Cl. 175—183.)

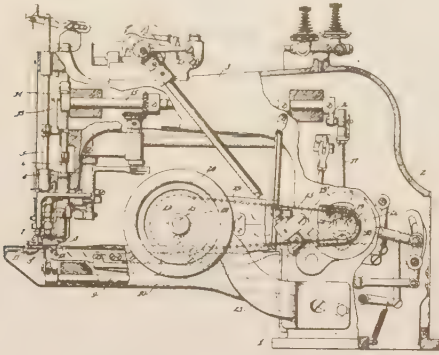


3. In a device of the character described, the combination with an insulating block, said block having an aperture near one end to admit the center stem of a spark plug, a nut on the stem for maintaining the block on the stem, a binding post mounted on the other end of the block, a plate secured upon one face of the block by said binding post, said plate including a portion held flat against the block, and a pair of like prongs joined to said plate, each prong rising from the block and extending forwardly along the block, the end of each prong being spaced above the block and above the nut which holds the device upon the center stem of the spark plug.

1,423,205. SEWING MACHINE. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 21, 1918. Serial No. 263,453. 4 Claims. (Cl. 112—258.)

1. A sewing machine comprising a standard and a work-supporting arm extending therefrom, stitch-forming mechanism adjacent the free end of the arm, a main-shaft mounted in the standard, operative means connecting the stitch-forming mechanism and the shaft, a hand-

wheel mounted in advance of said standard and independently of the work-supporting arm, substantially



at the level of and adjacent the stitch-forming mechanism, and operative means connecting the hand-wheel and main-shaft.

1,423,206. PHONOGRAPH RECORD. JOHN H. GEDDES, Waterbury, Conn. Filed Aug. 15, 1921. Serial No. 492,446. 3 Claims. (Cl. 40—16.)

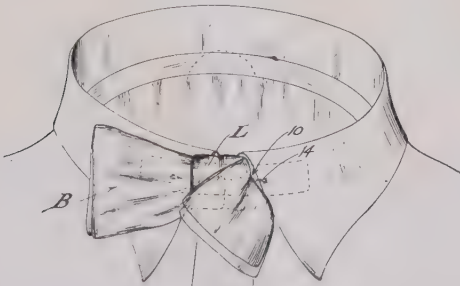


1. A cue clip for a phonograph record comprising a plate elongated in the direction of the circumference of the disc record bearing a cue and adapted to be placed against one side of the marginal smooth edge portion of a phonograph record, a base portion carrying said plate at its outer edge, and being of substantially the same length as the plate, said base portion adapted to extend across the edge of the record, and means carried by the base portion adapted to engage against the smooth edge portion of the record opposite to the plate for clamping the same in position.

1,423,207. JOURNAL PACKING. CHARLES A. GELIN, Chicago, Ill., assignor to W. Cary Lewis, Chicago, Ill. Filed May 10, 1920. Serial No. 380,191. 8 Claims. (Cl. 64—46.)

1. A packing of the kind described comprising wood excelsior treated so as to be free from grit and moisture.

1,423,208. TIE RETAINER. WILLIAM J. GETSINGER, Los Angeles, Calif. Filed Apr. 11, 1921. Serial No. 460,349. 3 Claims. (Cl. 24—49.)



1. A necktie retaining device comprising a strip of thin flexible material, a pair of short sections of wire

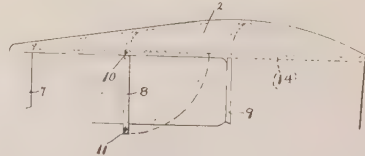
having their inner ends secured to the central portion of said flexible strip of material, the outer end portions of said sections of wire being rebent to form hooks which extend through the said strip of flexible material and project inwardly toward each other.

1,423,209. ADVANCING CUTTER-BORING TOOL. EDWARD F. G. GIBBS, Washington, D. C. Filed Aug. 22, 1918. Serial No. 250,981. 7 Claims. (Cl. 29—96.)



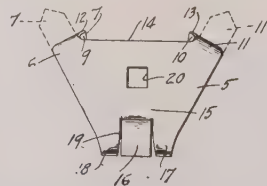
1. A counter-boring tool comprising a straight bar; the same having a cutter-holding aperture through its front end transversely disposed to its axis; a spring clamp integral with the said bar formed by a slit beginning on its surface to the rear of said aperture and running diagonally forward into it; a cutter fitted within the said aperture; and a pull-screw near the rear end of the said clamp which engages both clamp and bar, the head of which is counter sunken into the member which it enters; all substantially as set forth.

1,423,210. AUTOMOBILE SIDE CURTAIN. CHESTER H. GILLIG and LEO GILLIG, San Francisco, Calif. Filed Jan. 27, 1919. Serial No. 273,208. 3 Claims. (Cl. 296—140.)



1. A disappearing curtain for automobile tops comprising a top having bows, a series of guideways supported by the bows, the guideways extending rearwardly toward the center of the top, and flexible curtains slidable in the guideways.

1,423,211. WIRE-FENCE TIGHTENER. CHARLES GUSHWA, Elkhart, Ind. Filed Apr. 10, 1922. Serial No. 551,431. 3 Claims. (Cl. 24—71.1.)

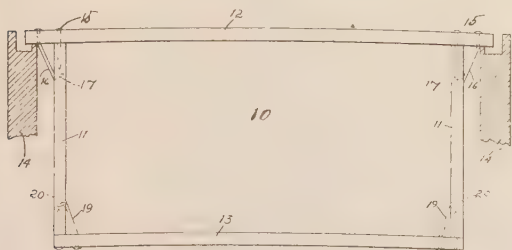


1. A wire tightener consisting of a plate having an opening in its central portion for the reception of a tool, extensions carried by certain corners of said plate, said extensions being extended back upon the plate to provide hooks, and fingers projecting from the end portion of the plate remote from the hooks, said fingers coacting with each other to provide a recess.

1,423,212. COMB FRAME FOR BEEHIVES. DEAN S. HALL, Marshfield, Vt. Filed Feb. 23, 1921. Serial No. 447,144. 8 Claims. (Cl. 6—10.)

1. A comb frame including end bars and a top bar, the top bar extending beyond the end bars and being attached

thereto, the ends of the top bar being longitudinally slotted, and connecting means between the projecting ends of the top bar and the end bars comprising members having their upper ends extending through said slots and having heads on their upper ends greater in area than the width of the slots, the lower ends of said members extending into the end bars and resisting upward movement of the projecting ends of the cross bar.



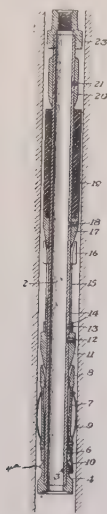
2. A comb frame including end bars and a cross bar, fastening devices connecting the end bars to the cross bar, and means for preventing sagging of the cross bar comprising metallic members at each end of the cross bar extending through the cross bar in spaced relation to the end bars and angularly bent at their extremities and driven into the end bars, that portion of the member between its point of emergence from the cross bar and its point of entry into the end bar being angularly disposed with reference to the end bar.

4. A comb frame having end bars and an upwardly curved cross bar.

7. A comb frame comprising end bars and a transverse bar, and means engaging the ends of the transverse bar and the end bars and drawing the transverse bar upward at its middle.

8. A comb frame comprising end bars, upper and lower transverse bars, and means connecting the end and transverse bars at the corners of said frame and holding said transverse bars in an upwardly bowed position.

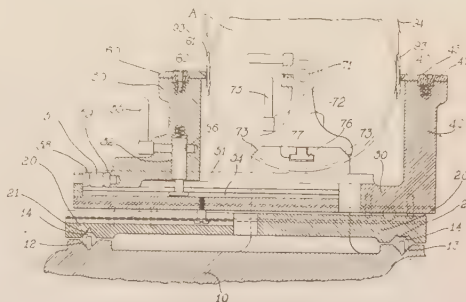
1,423,213. OIL-WELL PACKER. CHARLES M. HEETER, Butler, Pa. Filed Sept. 26, 1918. Serial No. 255,764. 9 Claims. (Cl. 166—12.)



1. A well packer having an expansible packing member and a plurality of holding members below said packing member in different horizontal planes arranged to support the packing member, a tube carrying the packing member and holding members and means frangibly connected to

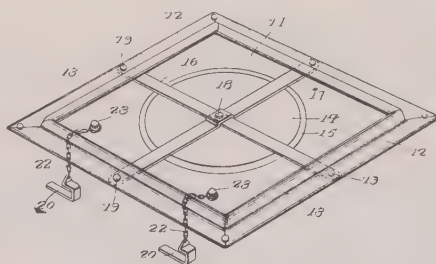
said tube for moving both of said holding members to operative position before the packing member is expanded, substantially as described.

1,423,214. MEASURING MACHINE FOR GAUGES. REUBEN HILL, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 1, 1920. Serial No. 407,398. 15 Claims. (Cl. 33—199.)



7. A machine for determining the dimensions of a conical body comprising in combination, a base, a mounting on said base for the conical body, a carriage on said base movable in a plane parallel to the axis of said body, a plate fixed to said carriage and adapted to be applied adjacent said body, a support on said carriage movable toward and away from said body, a plate on said support adapted to be applied adjacent said body, a stop on the mounting for said conical body adapted to engage one of the faces of said body, and means for determining the relative position of said plates.

1,423,215. COVER FOR LAUNDRY TUBS. LEO HIRSCHBERG, Newark, N. J. Filed Nov. 8, 1920. Serial No. 422,556. 2 Claims. (Cl. 220—32.)

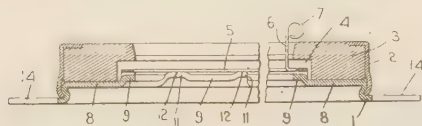


2. A cover for laundry tubs comprising a sheet metal plate having its marginal portions folded and extending at an angle from its under side and with the edges of the marginal portions in tubular form, and reinforcing bars extending transversely of the plate with their ends secured within the folded marginal portions of the cover.

1,423,216. SPINNING RING. CHARLES A. HOLT, Cambridge, Mass., assignor to Union Industrial Company, Boston, Mass., a Corporation of Maine. Filed June 8, 1921. Serial No. 476,069. 2 Claims. (Cl. 118—59.)

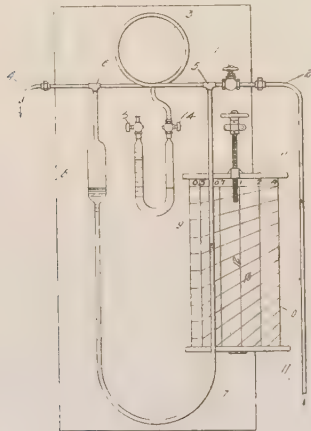
1. In a spinning ring, the combination with a casing comprising separable under and upper members, of a lining member of self-lubricating material confined within

said casing and provided with an annular traveller-receiving chamber, and an annular traveller in said cham-



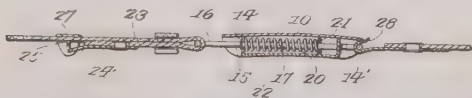
ber, said under member of the casing having separated portions projecting inwardly beyond the outer wall of said chamber to constitute a support for the traveller.

1,423,217. GAS METER. THEODORE HORTON, Albany, N. Y. Filed June 9, 1919. Serial No. 302,712. Renewed Dec. 21, 1921. Serial No. 524,013. 3 Claims. (Cl. 73-167.)



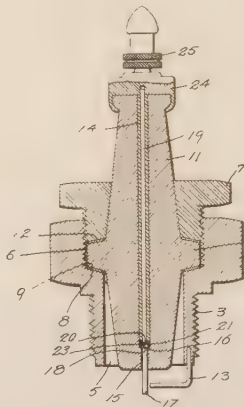
1. In a device for measuring the quantity of gases flowing, per unit of time, through a tube, a tube of uniform internal diameter; a differential manometer connected into said tube at two points distant from each other; a manometer connected into said tube midway between said points; and a chart mounted to cooperate with the measuring leg of said differential manometer, and having thereon indicia showing the quantity of gas discharged for different pressures, said chart being adjustable to bring its indications into harmony with the pressures as shown by the midway-connected gage.

1,423,218. BELT BUCKLE. WILLIAM A. HURST, Battle Ground, Ind. Filed Aug. 8, 1921. Serial No. 490,670. 1 Claim. (Cl. 267-72.)



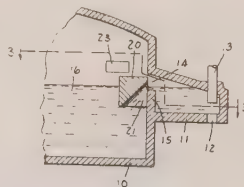
A belt buckle comprising a longitudinally flanged shell, a back plate having its ends turned inwardly toward the front of the shell, a longitudinal central bar disposed through the said inwardly turned ends and secured at its ends therein, a movable transverse plate between the intumed ends, the said bar being loosely engaged through said movable plate, a yoke having its arms slidable through one of said intumed ends and secured to and movable with the movable plate, springs on the arms of the yoke and the central bar between the movable plate and one of the intumed ends, and a yoke pivotally mounted in the flanges of the shell outwardly of other intumed end.

1,423,219. SPARK PLUG. DAVID M. HUTCHINSON, St. Louis, Mo. Filed Apr. 16, 1921. Serial No. 461,748. 3 Claims. (Cl. 123-169.)



1. In a spark plug a one piece insulator having concentric bores extending therethrough, and a shoulder adjacent the lower end thereof, a relatively long upper electrode having a head on its lower end, seated in one of said bores, and a relatively short lower electrode having a head formed on its upper end, seated in said bore and extending through the other bore, an insulating washer provided with an opening, positioned between said heads, a sleeve embracing said heads and said insulating washer for holding the two electrodes in assembled position before inserting in said bores.

1,423,220. MEANS FOR CONTROLLING DISCHARGE FROM GLASS TANKS. EDWARD S. HUTTON, Lapel, Ind. Filed Nov. 10, 1919. Serial No. 336,835. 1 Claim. (Cl. 49-55.)

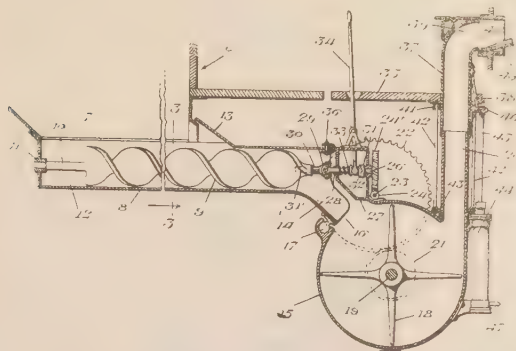


The combination of a glass tank, and a discharge spout, with a wall between the lower part of the spout and the glass tank and an opening above said wall for the flow of glass from the tank to the spout, a floating block inside the glass tank with a transversely disposed passageway in said block arranged so that when the block is in one position against said wall, the passageway will extend from the lower part of said block to a point higher than said wall and permit the flow of glass from the tank to the spout, and when the block is turned over will prevent such flow of glass.

1,423,221. LOCOMOTIVE STOKER. CARL H. JEFFERS, Kent, Ohio. Filed June 7, 1920. Serial No. 387,035. 4 Claims. (Cl. 302-36.)

2. A stoker comprising a blower to be carried by a locomotive including a cylindrical casing having its axis disposed horizontally and a fan operating within said casing, said casing having an upwardly-extending outlet pipe and an upper inlet opening, a longitudinal coal trough for the delivery of coal from the tender having a downwardly-directed chute at its forward end entering said

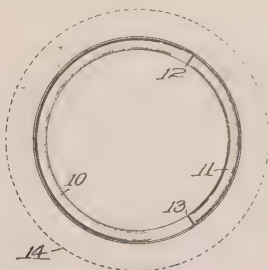
inlet of the blower casing, said casing and trough having a flexible connection for the relative movement thereof, an auger conveyor working within said trough for feeding



the coal to said chute, and operating means for said fan and auger having a flexible connection located between said casing and trough.

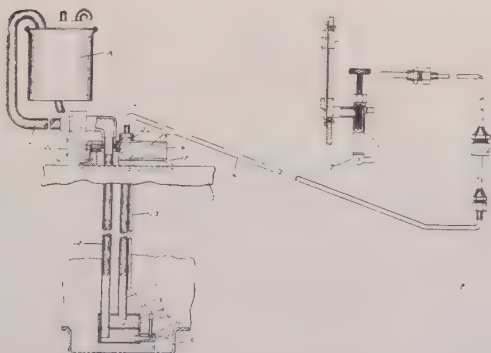
1,423,222. METHOD OF CUTTING OVER METAL RIMS.

ALVIN L. JOHNSON, Worcester, Mass., assignor to Two Part Rim Co. Inc., a Corporation of Delaware. Filed May 17, 1920. Serial No. 382,137. 9 Claims. (Cl. 29—159.)



1. The method of cutting over a wheel rim for carrying a pneumatic tire which consists in cutting the rim into a plurality of separate sections and then securing metal thereto filling the space between said sections to compensate for the metal removed in cutting the rim apart.

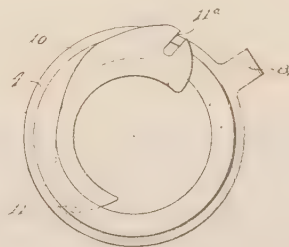
1,423,223. DEPTH-INDICATING DEVICE. HORACE W. KING, Ann Arbor, Mich. Filed Aug. 27, 1920. Serial No. 406,338. 16 Claims. (Cl. 73—54.)



1. In a depth indicating device for liquids, the combination with a chamber communicating with a liquid at

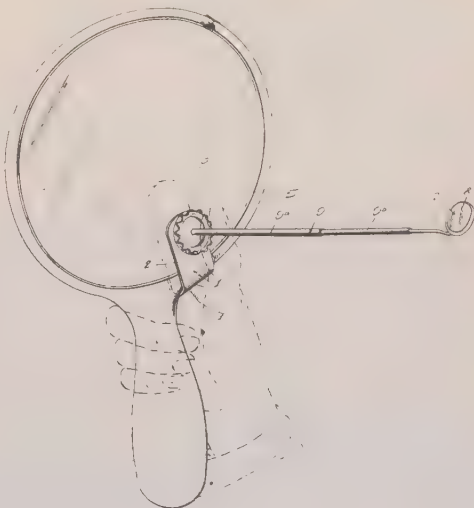
the full depth to be measured, of a second chamber below said first mentioned chamber and communicating therewith, means for introducing air into said second chamber, and a pressure gage communicating with said first mentioned chamber.

1,423,224. IRIS DIAPHRAGM. RUDOLPH KLEIN, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 30, 1920. Serial No. 393,068. 4 Claims. (Cl. 95—64.)



1. An iris diaphragm comprising two ring members, one of which is mounted to turn on the other, and blades pivotally connected to one of said ring members extending through the opening of the other ring members and pivotally connected to such other ring member.

1,423,225. DENTAL MIRROR. WILLIAM E. KNIGHT, Delaware, Ohio. Filed Sept. 26, 1921. Serial No. 503,330. 5 Claims. (Cl. 32—27.)

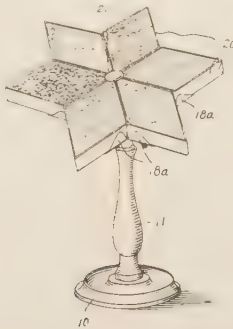


1. In a device of the class described, a base member, a stem extending therefrom, a supporting arm rotatably fitting the stem, a mirror supported by the arm, and operating means for rotating the arm.

1,423,226. DISPLAY STAND. JOSEPH KUDNER, New York, N. Y. Filed Mar. 20, 1922. Serial No. 545,023. 4 Claims. (Cl. 211—24.)

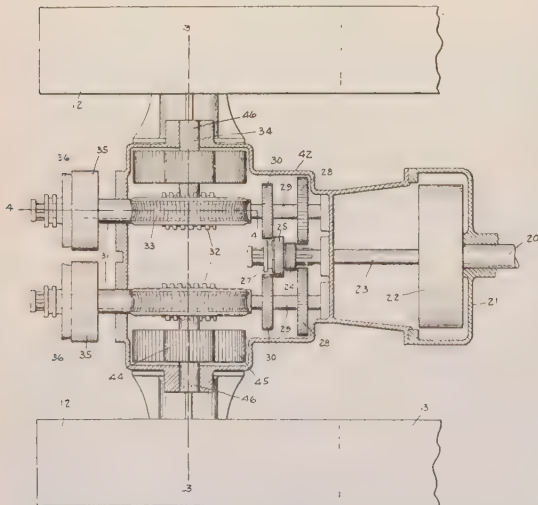
1. The herein described display stand comprising a holder, a pin in the central portion of the holder and having a head spaced from the holder for engaging a series of

interchangeable trays, and means at the periphery of the holder to engage and embrace the outer portions of the



trays while the inner ends of the trays are located beneath the head of said pin.

1,423,227. TRACTOR. JOHN W. LAMBERT, Anderson, Ind. Filed Apr. 19, 1919. Serial No. 291,291. 2 Claims. (Cl. 180—9.2.)

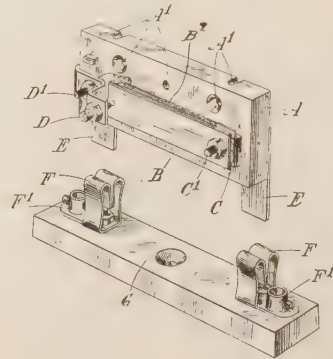


1. In a tractor the combination with parallel ground-engaging traction devices, and a motor driven primary transmission shaft intermediate said devices, of parallel secondary transmission shafts, similar gear means upon each of said secondary shafts, driving gear means upon said transmission shaft and rotatable thereby, said means being slidable longitudinally on said transmission shaft into simultaneous engagement with both of said gear means on said secondary transmission shafts for driving both of said shafts at variable speeds, gear means rotatably mounted on said secondary shafts, independent clutch means connecting each of said last mentioned gear means to the respective secondary shafts upon which they are mounted, a divided jack shaft, a plurality of gear means secured one to each section of said jack shaft and operatively associated with one of the second mentioned gear means upon said secondary transmission shafts, and independent transmission devices connecting the sections of said jack shaft one to each of said ground-engaging traction devices.

1,423,228. ELECTRIC-LAMP SWITCH. EDWARD CLAUDE LEACHMAN, London, England, assignor to Pearl Pictorial (Foreign & Colonial) Limited, London, England. Filed Mar. 7, 1919. Serial No. 281,174. 2 Claims. (Cl. 200—113.)

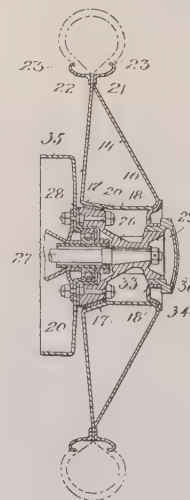
1. In a heat-operated intermittent contact maker for use with an insulating support having mounted thereon

two contact clips situated with their line of engagement in a plane common to both, the combination with an insulating base, two electrically conducting blades situated in a plane common to both, which blades project beyond one edge of said base and are spaced apart and aligned to engage the said clips, a heat-operated bimetallic strip, and a contact-piece arranged to cooperate with the free end of



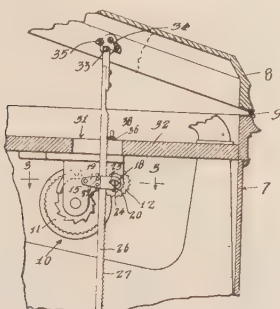
said strip, of means common to the other end of the strip and to one of said blades for connecting the same together electrically and also securing the same on said base, and means common to the said contact-piece and to the other of said blades for connecting the same together electrically and also securing the same on said base with the contact-piece mounted in operative relation to the free end of the strip, substantially as set forth.

1,423,229. PRESSED-STEEL WHEEL. JOSEPH LEDWINKA, Philadelphia, Pa., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 21, 1917. Serial No. 150,084. 1 Claim. (Cl. 301—64.)



In a wheel, the combination of an inner hub having a central seating portion of polygonal cross-section, a central tubular member having its inner end enlarged and of polygonal cross-section to co-operate with the seating portion of said inner hub, a plurality of flat spokes formed integral with and extending from the ends of said tubular member, and a rim connected to the ends of said spokes, the ends of said spokes lying in the central plane of the wheel tread and the spokes extending from the outer end of said tubular member making a greater angle with the said plane than the spokes extending from the inner end of said member.

1,423,230. WINDING MECHANISM FOR SPRING MOTORS. OSWALD C. LEGER, Los Angeles, Calif. Filed Dec. 28, 1921. Serial No. 525,288. 2 Claims. (Cl. 185—39.)

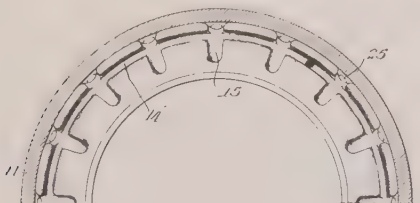


2. The combination with a phonograph having a spring motor and a lid, of a rack pivotally connected with the lid, means operated by endwise movement of the rack to wind the motor, and means mounted on the phonograph and engageable with the rack teeth to support the rack against the pressure of the lid.

1,423,231. METHOD OF PURIFYING CARBON. VICTOR LENHER, Madison, Wis., and FRANK M. DORSEY, Cleveland, Ohio; said Dorsey assignor of his right to General Electric Company, a Corporation of New York. Filed Sept. 18, 1920. Serial No. 411,258. 8 Claims. (Cl. 127—2.)

5. The method of purifying carbonized material which comprises subjecting the same to the action of a solvent comprising selenium oxychloride, washing the residue with carbon tetrachloride, and then evaporating the carbon tetrachloride remaining in the product.

1,423,232. TIRE. HERMAN LOBEL, Los Angeles, Calif., assignor to Compression Tube & Tire Co., Los Angeles, Calif., a Business Trust. Filed Sept. 2, 1919. Serial No. 321,253. 2 Claims. (Cl. 152—13.)

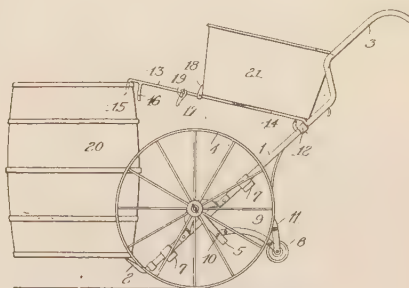


1. An inner tube formed of sufficiently thick rubber to prevent crumpling and of greater length about its periphery than the casing in which it is to be used, said greater length being taken up by a series of radial depressions; and of greater length on a radial plane than the inside of the casing in which it is to be used, said greater length on a radial plane being taken up by one or more circumferential corrugations; said radial depressions and circumferential corrugations being forced outwardly when the tire is inflated thus placing the rubber of the inner tube in compression in two directions at right angles to each other.

1,423,233. EXPLOSIVE MATERIAL. CHRISTEN JOHANNES STAUTSBOLL LUNDGAARD, Vejen, and KAJ TOBIAS HERBST, Braband, Denmark. Filed Sept. 14, 1921. Serial No. 500,663. 5 Claims. (Cl. 52—5.)

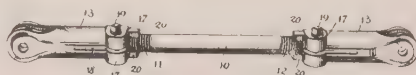
1. An explosive comprising a perchlorate of methyl-substituted ammonium compound.

1,423,234. TRUCK. JOHN T. LYNCH, Rochester, N. Y. Filed July 24, 1920. Serial No. 398,794. 7 Claims. (Cl. 214—65.4.)



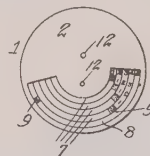
1. The combination with a frame of a heel piece at one end thereof and an operating handle at the other end, a hook arm provided with a plurality of prongs and pivotally secured to the frame, said hook being adapted to engage the upper edge of an object constituting the load between said prongs for retaining the same on the outer edge of the heel piece, and an upwardly extending prong adjustable along the hook arm to fit different sizes of loads which may be carried upon said arm between the operating handle and the last mentioned prong.

1,423,235. BRAKE-ROD ADJUSTER. ROBERT C. McARTHUR, Sand Springs, Okla., assignor to Walter O. Fredrikson, A. Edward Krieger, and Robert C. McArthur, trustees, all of Salamanca, N. Y. Filed Apr. 13, 1921. Serial No. 461,156. 4 Claims. (Cl. 287—60.)



1. In a brake rod adjuster, an adjusting rod, and bored and internally threaded socket members receiving the ends of said rod, having split clamping portions, and having oil chambers into which the rod ends also extend and oil feed openings in connection with said chambers.

1,423,236. CHECK PROTECTOR. CHARLES C. McCOMBS, Stephenville, Tex. Filed Nov. 19, 1921. Serial No. 516,378. 8 Claims. (Cl. 101—19.)

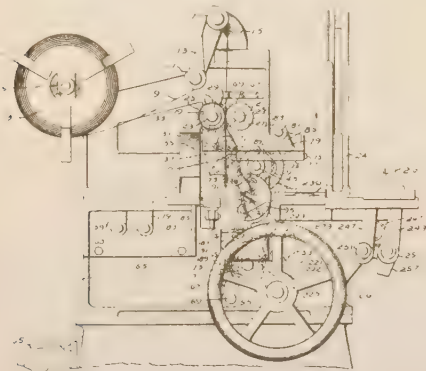


1. In a device of the class described, the combination of a split casing, numeral rings in said casing to one side of said split, and an inking pad in the other side of said casing to said split, whereby a check placed in the split of the casing can be operated upon to expose certain numerals upon the check when the pad is pressed toward the numerals.

1,423,237. MACHINE FOR APPLYING HOODS TO ARTICLES. THEODORE G. MCGIRR, Springfield, Mass. Filed May 4, 1918, Serial No. 232,464. Renewed Nov. 28, 1921. Serial No. 518,479. 9 Claims. (Cl. 93—2.)

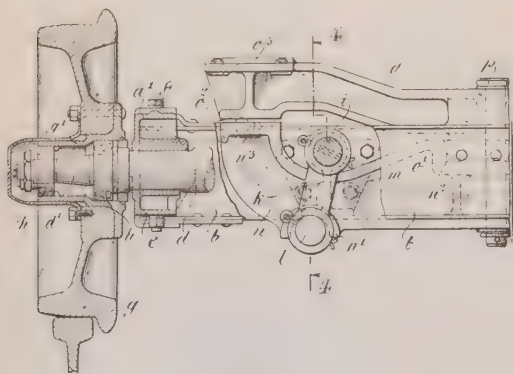
7. A machine of the character described, comprising, in combination, a step-by-step rotative folder having a recess therein, means to feed a wrapper strip toward said

folder, means for feeding the strip across said recess on rotation of the folder a step, means for thrusting an article to be wrapped against said wrapper strip and into said recess, thereby to fold the strip about an end and onto opposed sides of the article with a portion of the strip projecting from said recess, means to apply ad-



hesive to said projecting portion on rotation of the folder a further step, said portion being folded about the opposite end of the article on rotation of the folder a further step, and means for receiving the partially wrapped article from the folder and for folding the adhesive portion of the strip into engagement with another portion of the strip.

1,423,233. LEADING TRUCK FOR RAILWAY MOTOR CARS. ALFRED F. MASURY, New York, N. Y., and LYMAN C. JOSEPHS, Jr., Allentown, Pa., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 31, 1921. Serial No. 526,164. 5 Claims. (Cl. 105-190.)



3. In a leading truck for self-propelled railway cars, swinging links mounted on the truck, a lower bolster mounted freely on the links to swing therewith, and an upper bolster mounted centrally of the lower bolster with capacity for swiveling movement with respect thereto and having seats thereon for the vehicle springs.

1,423,239. WINDOW CLEANER. ALBERTO MECONI, Munich, Germany, assignor to Tacope Meconi, Cumberland, Md. Filed July 1, 1921. Serial No. 481,816. 1 Claim. (Cl. 15-251.)

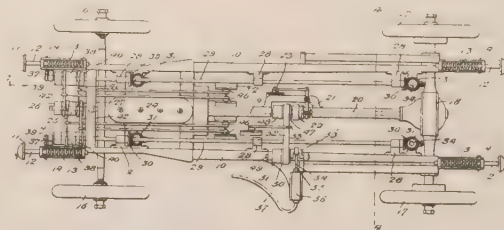
A window cleaner comprising pulley wheels mounted at the top and bottom of the window frame, substantially flat, rectangular guide members extending at right angles to the window frame on opposite sides thereof and

provided with elongated openings, rollers positioned in said elongated openings, a rigid connection between the



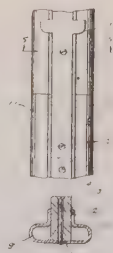
rollers on each side of the frame, cables joined to said rigid connections, and a wiper carried by one of said rigid connections.

1,423,240. AUTOMOBILE FRAME. ANTONIO MELIDONA, Niagara Falls, N. Y. Filed Nov. 20, 1920. Serial No. 425,455. 2 Claims. (Cl. 180-1.)



1. In a device for the purpose set forth, the combination with the frame and power plant of an automobile in which the drive shaft between the engine and differential is constructed of two sections, clutch means for connecting or disconnecting the sections, and said drive shaft projecting beyond the front of the frame, of fixed and loose pulleys on said projecting end of the shaft, shafts journaled in bearings along the sides of the frame having fixed and loose pulleys disposed opposite the first mentioned pulleys, belts trained around all of the pulleys, means for shifting the belts from the loose to the fixed pulleys, and screw jacks operated by the last mentioned shafts when the same are rotated.

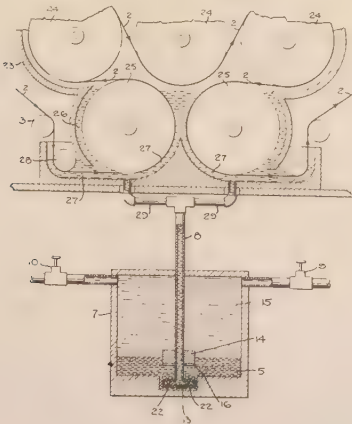
1,423,241. STABLE APPLIANCE. ROBERT MINSHULL, Waterloo, Wis., assignor of one-half to Paul B. Goddard, Wilmette, Ill. Filed Aug. 16, 1919. Serial No. 317,965. 2 Claims. (Cl. 72-105.)



1. In a stable appliance, the combination with the portion of a concrete flooring, of a guideway therein, a channel member of inverted T-shape set in the flooring with its vertical portion in register with said guideway and its top edges spaced below the surface of the flooring, and a temporary strip adapted to be removably secured in the channel member and having its top pro-

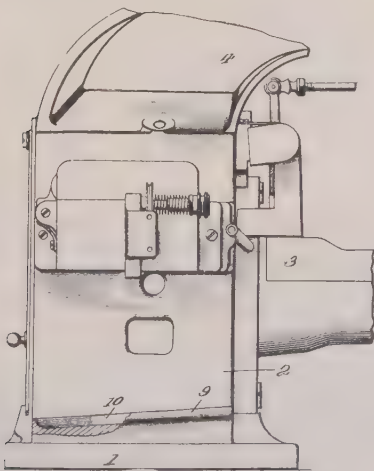
jected beyond the top edges of the vertical portion of the channel member a distance substantially equal to that between the top edges of the vertical portion of said channel member and the surface of the flooring.

1,423,242. APPARATUS FOR MAINTAINING AND REMOVING LIQUID SEAL FOR VACUUM APPARATUS. OGDEN MINTON, Greenwich, Conn. Filed May 25, 1920. Serial No. 384,210. 2 Claims. (Cl. 34-48.)



2. The combination of a vacuum chamber, a sealing chamber connected with the vacuum chamber and with a reservoir, a reservoir connected with the sealing chamber, mercury and a nonmixing fluid contained in the reservoir, the mercury adapted to flow into the sealing chamber and become the seal for the vacuum chamber and means to increase or decrease the quantity of the other nonmixing fluid to force the mercury into the sealing chamber or withdraw it therefrom back into the reservoir, and a float in the reservoir adapted to prevent any of the nonmixing fluid getting into the sealing chamber.

1,423,243. SEWING-MACHINE FRAME. JAMES R. MOFFATT, Chicago, Ill., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 17, 1920. Serial No. 389,643. 3 Claims. (Cl. 112-256.)



1. A frame for sewing machines including a standard, a work supporting arm projecting from said standard

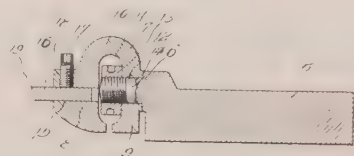
along which the material being stitched is moved, said standard having bearings, one of which projects from the standards, a shaft in said bearings, a drive wheel on the end of the shaft adjacent said projecting bearing, said standard having a trough projecting therefrom directly beneath the projecting bearing for the shaft, and an opening through said standard through which the oil draining into the trough is directed to the inside of the standard.

1,423,244. CHAIN SHACKLE AND METHOD OF MAKING THE SAME. EDWARD Y. MOORE, Cleveland, Ohio. Filed Dec. 20, 1920. Serial No. 431,880. 10 Claims. (Cl. 59-9.)



1. The method of making a chain shackle which consists in forming a member having an enlarged body portion with an aperture therein and having arms extending upwardly therefrom, inserting the shank of a load-supporting device in the aperture, upsetting a portion of the shank above the aperture, and thereafter bending the ends of the arm into close proximity with each other.

1,423,245. TOOL HOLDER. JOHN R. MOORE, Chicago, Ill. Filed Mar. 17, 1921. Serial No. 452,933. 14 Claims. (Cl. 29-96.)



1. A tool-holder formed of sections by one of which the holder is adapted to be supported, the other of said sections being a spring section adapted to support the tool, said spring section being adjustable upon the other section about an axis extending lengthwise of the latter, and means located at one end only of said first-referred-to section for adjustably securing said spring section to be adjusted as stated to vary its inclination relative to the work.

1,423,246. INVISIBLE INK. CHARLES F. MORSE, Cleveland, Ohio, assignor to The Invisible Process Co., Cleveland, Ohio. Filed Nov. 14, 1921. Serial No. 515,000. 4 Claims. (Cl. 134-29.)

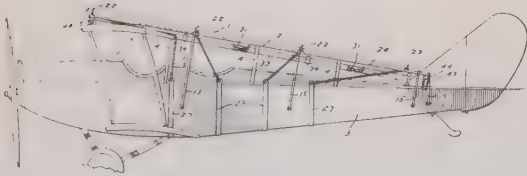
3. An invisible ink composed of an aqueous solution of basic ferric sulphate mixed with a quantity of phosphoric acid variable within the limits of twenty-five to seventy-five per cent of the quantity of ferric sulphate.

1,423,247. WRENCH. JOHN MUMFORD, Chillicothe, Ohio. Filed Oct. 6, 1919. Serial No. 328,697. 1 Claim. (Cl. 81—91.)



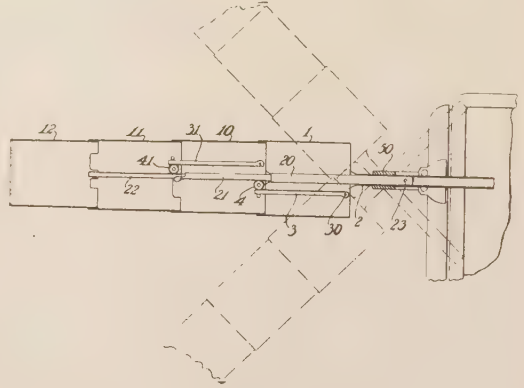
A wrench comprising a pair of substantially straight, elongated jaw members one of a greater length than the other, said jaw members having their opposed flat faces arranged substantially parallel one with respect to the other and formed with serrated gripping faces arranged in pairs, one pair of such faces being formed at the outer end of said jaw members and the other pair at a point intermediate the length of the latter, pivot connections between the parallel faces of said jaw members and between the pairs of said gripping faces, an operating handle pivotally connected to the lower end of the shorter of said jaw members, and a link pivotally connecting the lower end of the longer of said jaw members with said operating handle, the pivotal point of said link with said handle being disposed at a distance below the pivotal point of the latter with said shorter jaw member.

1,423,248. PARACHUTE. CHARLES L. NEWMAN, Berkeley, Calif. Filed June 11, 1921. Serial No. 476,738. 10 Claims. (Cl. 244—21.)



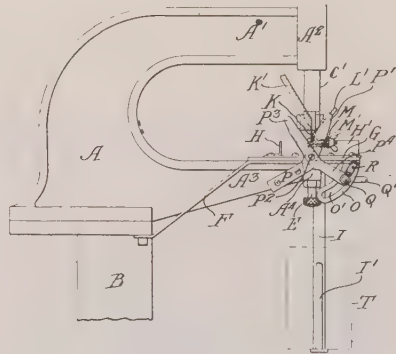
1. A parachute attachment for an aeroplane, comprising an outrigger secured to said aeroplane, a container for the parachute secured above the aeroplane, means for attaching the cords of the parachute to the body of the aeroplane and manually controlled spring means incorporated in the cords for opening the container and drawing the edge of the parachute toward the outlines of the outrigger before releasing the same.

1,423,249. AUTOMOBILE DIRECTION SIGNAL. TOR-GILS S. OPHEIM, Everett, Wash. Filed Sept. 8, 1921. Serial No. 499,318. 7 Claims. (Cl. 116—44.)



1. In a direction signal, a plurality of slidable sections, and means operable by movement of an inner section for moving the next outer section at an increased rate of speed.

1,423,250. STRING HOLDING AND CUTTING ADJUSTMENT FOR RIVET-SETTING MACHINES. HAROLD PARKINSON, Wilmington, Del. Filed May 25, 1921. Serial No. 472,580. 2 Claims. (Cl. 93—91.)

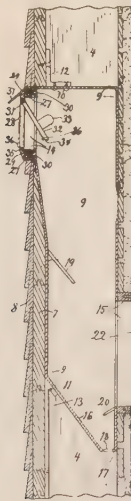


1. In combination with a rivet setting machine a string guide located on one side of the rivet holder, to receive and position the string as it is drawn from a spool and an elastically gripping string guide and holder having outwardly flared guide arms located on the other side of the rivet holder.

1,423,251. MAIL BOX IN HOUSE WALLS. BERNARD T. PENNIG, St. Paul, Minn., assignor to Penn-Greg Mfg. Co., St. Paul, Minn., a Copartnership consisting of Joel E. Gregory, Esther Sophia Strand, and himself. Filed Feb. 7, 1920. Serial No. 356,820. 6 Claims. (Cl. 232—19.)

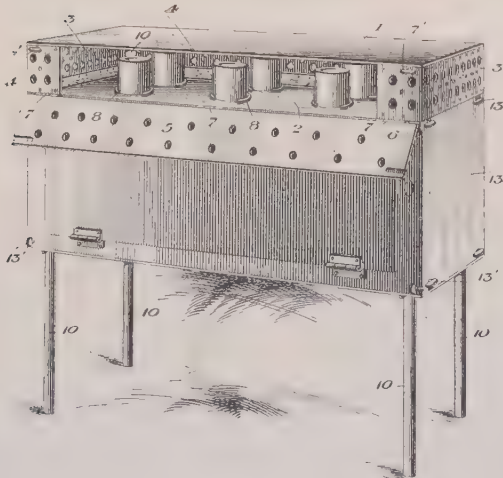
1. The combination with double walls, of a mail box mounted between said walls and covered thereby, and an

anchoring bracket secured to the mail box and one of the walls on the inside thereof, one of said walls and



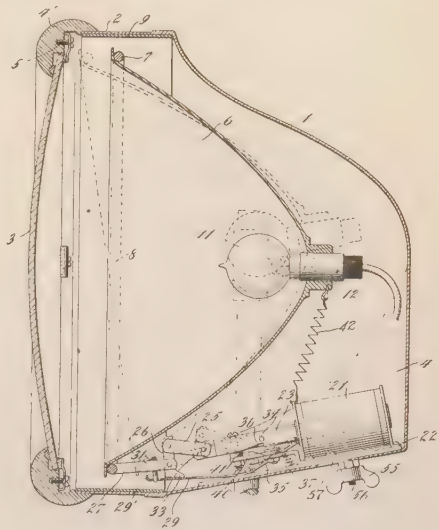
the mail box having coincident inlet openings, and the other of said walls and mail box having coincident outlet openings.

1,423,252. COLLAPSIBLE FIELD STOVE. ISAAC C. POPPER, New York, N. Y., assignor to Basic Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 24, 1918. Serial No. 251,329. 6 Claims. (Cl. 126—38.)



1. A collapsible field stove including top, bottom, perforated sides, ends and door, the top and bottom relatively close to each other, whereby a relatively low and flat stove portion is formed which is adapted to receive therein cans of solidified fuel whereby the flame therefrom is at the proper distance from the top, and legs extending loosely through the bottom and removably secured to the lower side of the top, and constituting the sole means of support for the stove.

1,423,253. HEADLIGHT. TRUMAN W. POST, New York, N. Y., assignor to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Jan. 15, 1917. Serial No. 142,344. 5 Claims. (Cl. 240—41.)



1. A headlight comprising a casing, a pivottally mounted reflector therein, operating mechanism for tilting said reflector, said operating mechanism being bodily movable in said casing to initially adjust the angular position of said reflector.

1,423,254. BARREL. JOHN R. RAIBLE, Cleveland, Ohio, assignor to The Greif Brothers Cooperage Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 17, 1919. Serial No. 283,026. 4 Claims. (Cl. 217—89.)

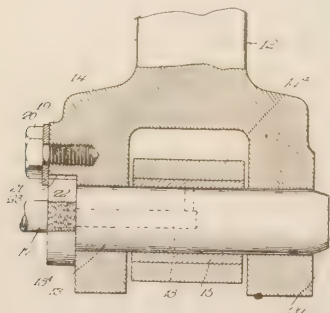


1. A barrel comprising staves, means encircling the staves to hold them together, an inside groove formed in the staves and adjacent each end of the barrel, a head at each end of the barrel and having its edge mounted in one of said grooves, a reinforcing head associated with the outside surface of each of the first named heads, the periphery of said reinforcing head abutting against the inner ends of the said staves and the outside surface of said reinforcing head lying substantially flush with the ends of the staves, and means for securing the reinforcing head to the staves.

1,423,255. LEAF-SPRING CONNECTION. JOSEPH J. RATH, Chicago, Ill., assignor to The Available Truck Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1920. Serial No. 413,477. 5 Claims. (Cl. 64—27.)

1. A spring connection construction comprising a yoke member, having aligned openings in its arms, a shackle-bolt extending through said openings, a leaf-spring having a portion surrounding said shackle-bolt between said arms, said shackle-bolt having a head engaging the outer

face of one of said arms to position it, said head having a flat edge, one arm on the yoke having an overhanging shoulder having a flattened portion for engaging said flat edge to prevent rotation of said shackle-bolt, a screw threaded into said overhanging shoulder portion and bearing on the head of the shackle-bolt to hold it in position.

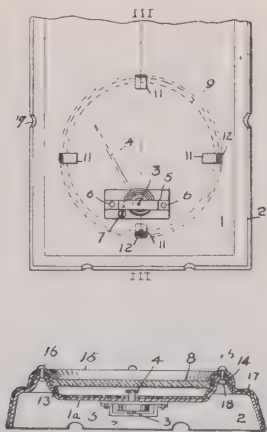


said shackle-bolt having an oil passage leading from the headed end thereof to oil the spring connection, and an oil-cup secured to the head of said shackle-bolt in upright position, the engagement between said flat edge and said flattened shoulder portion serving to keep the oil-cup in upright position.

1,423,256. WATER PAINT. ARTHUR L. RICE, Adams, N. Y.; Caroline S. Rice executrix of said Arthur L. Rice, deceased. Filed Mar. 12, 1919. Serial No. 282,151. 5 Claims. (Cl. 134—50.)

5. A process of making a waterproof water paint which consists of first making a dry powder containing casein and lime and capable when water is added thereto of use as a water paint, adding to the powder sufficient water to produce a heavy paste, stirring the paste until smooth and homogeneous, adding more water and stirring until the paste is thinned to the consistency of heavy cream, adding to four parts by volume of the mixture one part of a water-proofing liquid consisting of a solution of paraffine in a volatile solvent, and stirring the mixture of the paste and the water-proofing liquid until a semi-permanent homogeneous emulsion is formed.

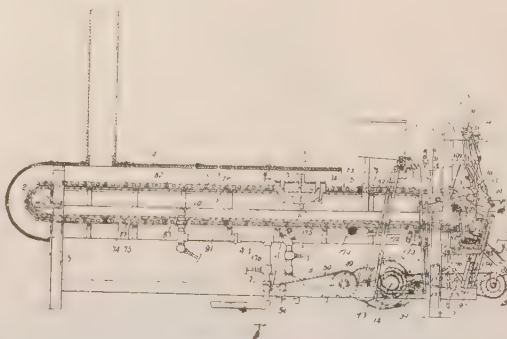
1,423,257. THERMOMETER. ERNEST RICHARDSON, College Hill Borough, Pa. Filed July 12, 1921. Serial No. 484,041. 3 Claims. (Cl. 73—52.)



1. A thermometer comprising a sheet-metal frame with a marginal flange forming a hollow casing with the rear

side open and having a round bearing-opening, a bracket lying on the inner face of the frame and wholly within the same and having a bearing-opening in alignment with the other bearing-opening, means adjacent to the opening in the bracket for securing the latter to the frame, a shaft mounted in the said openings, a pointer on the outer end of the shaft beyond the frame, there being temperature indicia on the outer face of the frame co-extensive with the range of the pointer, a thermostatic coil between the frame and the bracket, having one end fixed and the other end attached to the shaft, a cover glass for the pointer, means spacing the glass from the pointer and indicia, and a ring attached to the frame and securing the glass in fixed relation to the frame.

1,423,258. MACHINE FOR BAKING PASTRY PRODUCTS. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Oct. 29, 1917. Serial No. 199,149. 49 Claims. (Cl. 107—58.)



1. In a pastry making machine, the combination, with a mold, and a core therefor, of an ejector for the molded product, means for withdrawing said core from said mold, and a lever having connections to position said core withdrawing means and said ejector simultaneously.

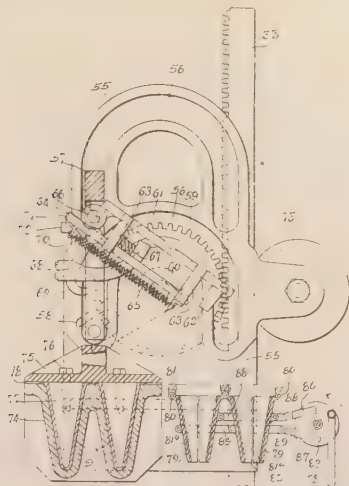
23. In a pastry making machine, the combination, with a mold and a belt to which said mold is pivoted, of a track for tilting said mold, batter filling devices adjacent said track, and means for moving said belt constructed to stop said mold in batter filling position, said mold being tilted by said track in said filling position.

49. In a machine of the class described, a plurality of sets of separable mold sections having semi-mold cavities, those of one section adapted to register with those of the opposing section, cores therefor, means for sustaining the mold sections to be opened and closed by relative movement of the same bodily laterally while maintaining their opposing faces in planes parallel to the axes of the mold cavities as a whole, means for introducing and removing the cores from the mold cavities, a set of dummy cores, means for introducing said dummy cores into the cavities of the baked article after removal of the mold cores, and means for relatively moving the mold sections and the dummy cores whereby the baked articles are loosened from the mold sections, said articles being adapted to pass through between the mold sections when the sections are separated.

1,423,259. MACHINE FOR AND METHOD OF MAKING PASTRY CONES. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Feb. 7, 1921. Serial No. 443,062. 29 Claims. (Cl. 107—58.)

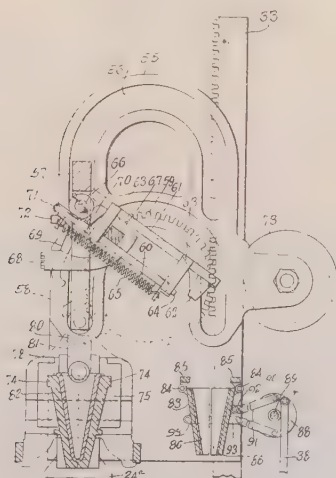
1. In a cone making machine, the combination, with a cone-forming unit comprising a solid mold with cavities and corresponding cores, of cone grippers comprising

members adapted to receive the cores with their impaled cones, mechanism to withdraw the cores and impaled



cones from the mold, insert them into the grippers and to return the cores to the mold, and other mechanism to cause the grippers to release the cones.

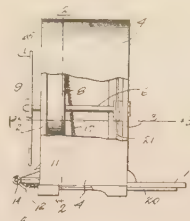
1,423,260. MACHINE FOR AND METHOD OF MAKING PASTRY CONES. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Feb. 7, 1921. Serial No. 443,063. 19 Claims. (Cl. 107—58.)



1. In a cone making machine, the combination, with a cone-forming unit comprising a separable mold with cavities and corresponding cores, of cone grippers comprising members adapted to receive the cores with their impaled cones, mechanism to open and close the mold and mechanism to withdraw the cores and impaled cones from the mold, insert them into the grippers and to return the cores to the mold, and other mechanism to cause the grippers to release the cones.

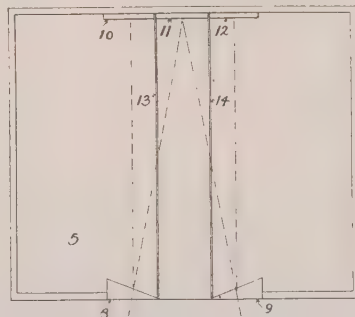
10. In a cone making machine, the combination, with a separable mold, mechanism to open and close the mold, and devices to hold it momentarily stationary while it is being opened and closed, of corresponding cores and core actuating mechanism comprising ways, a carriage adapted to travel therein, and a lifting frame mounted on the carriage, devices to cause the frame to engage with and disengage from the core bar, and operating devices to cause the carriage to travel in the ways.

1,423,261. ANIMAL TRAP. CLIFTON C. ROCKWELL, Tucson, Ariz. Filed Jan. 3, 1918, Serial No. 210,172. Renewed Dec. 11, 1920. Serial No. 430,044. 2 Claims. (Cl. 43—75.)



1. An animal trap of the character described comprising a base, a housing rising from the base and having an entrance opening, an armed striking member rotatably supported by the housing in position for movement of its arms across the entrance opening, a motor within the housing, connections between the motor and the striking member for rotation of the latter, a rotatable latch member mounted beneath the base and including arms equal in number to the arms of the striking member, a gear member connected with the striking member for rotation therewith and arranged to engage the latch member for rotation thereof, a depressible platform pivoted to the base and extending through the entrance opening, yieldable means for holding the platform normally against depression and a stop connected with the platform for movement therewith to lie in the path of movement of the arms of the latch member when the platform is in normal position and to lie out of the said path of movement when the platform is depressed.

1,423,262. CHANGING-VIEW DISPLAY APPARATUS. HENRY M. RUSSELL, Wheeling, W. Va. Filed May 12, 1921. Serial No. 468,956. 7 Claims. (Cl. 40—137.)

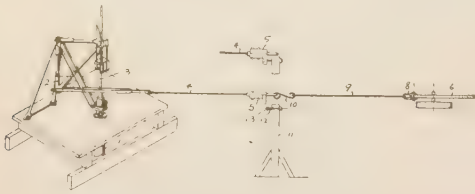


1. In a changing-view display apparatus, the combination of two views and a prism, all so located with respect to each other, that the apparent position of one of the said views, as observed through the prism, shall be the same as the actual position of the other of the said views, and screens to prevent the observation of one of the said views except through the said prism, and to prevent the observation of the other of the said views through the said prism.

1,423,263. CABLE CLAMP. DOUGLE M. SALTER and SOSTHENE ROBICHAUX, Saratoga, Tex. Filed Dec. 3, 1920, Serial No. 428,176. Renewed May 25, 1922. Serial No. 563,671. 1 Claim. (Cl. 24—135.)

A line clamp formed of two sections, means for clamping the same to a line, a lug carried by the clamp and

extending at right angles thereto and having a deep notch which forms said lug into spaced fingers provided

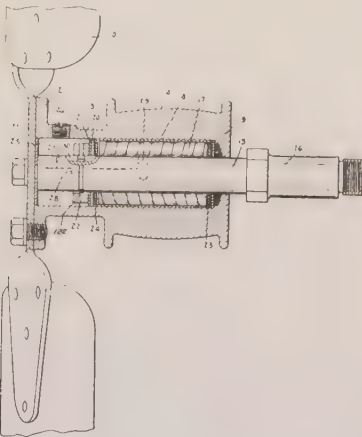


to receive an anchor between them and a clevis carried by the clamp provided for the attachment of a hook thereto.

1,423,264. PYROTECHNIC COMPOSITION. WALTER T. SCHEEL, Hackensack, N. J., assignor to Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,573. 6 Claims. (Cl. 52—23.)

5. A composition of matter comprising hexamethylenetetramine and strontium nitrate in the form of a double salt with the addition of a finely powdered metal.

1,423,265. BEARING CONSTRUCTION FOR FANS. LOUIS SCHWITZER, Indianapolis, Ind., assignor to Automotive Parts Company, Indianapolis, Ind., a Corporation. Filed Aug. 11, 1919. Serial No. 316,855. 1 Claim. (Cl. 64—26.)

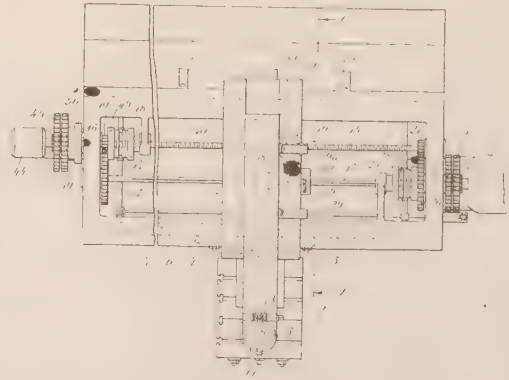


A fan construction having a stationary spindle, a hub mounted on said spindle and adapted to rotate thereon, a fan plate secured to the outer end of said hub, roller bearings mounted between said spindle and hub, an oil reservoir within said hub between the outer end of said bearings and the fan plate, end thrust bearings mounted at the outer end of said roller bearings, a longitudinally extending oil conduit passing through said spindle, a radially extending passage in said spindle communicating with said longitudinal passage and oil reservoir for maintaining the lubrication of said bearings, and a second oil passageway in said spindle communicating with said reservoir and end thrust bearings for maintaining their lubrication.

1,423,266. SHAPING MACHINE. WILLARD T. SEARS, Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed May 22, 1919. Serial No. 298,924. 48 Claims. (Cl. 90—41.)

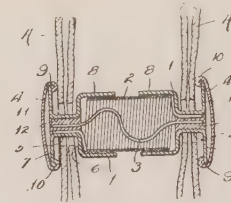
1. The combination of a work table, a tool holder, an electric motor for causing relative reciprocation of

such members either longitudinally or transversely, and means including automatic means for controlling the operation of the motor for causing the reciprocating mo-



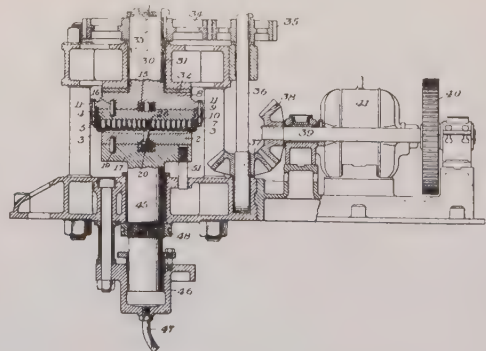
tion of the reciprocating member in either direction to be relatively slow and in the opposite direction to be relatively fast.

1,423,267. CUFF BUTTON. MALVERN W. SEVERANCE, Cleveland, Ohio. Filed Oct. 8, 1920. Serial No. 415,609. 4 Claims. (Cl. 24—102.)



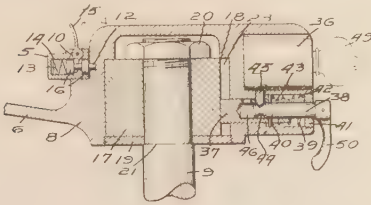
1. A cuff button, comprising button members, said button members each having an annular channel for the reception of a cuff portion and resilient extensible connecting means for said members.

1,423,268. MACHINE FOR ROLLING. EDWIN E. SLICK, Pittsburgh, Pa. Filed Nov. 29, 1919. Serial No. 341,390. 7 Claims. (Cl. 80—16.)



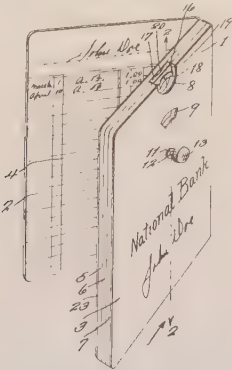
7. In a rolling machine, a work-supporting member and a thrust member, connections arranged to impart relative rotation thereto around a stationary axis, an imperforate system of rolling elements between the members, a holding device for the system of rolling elements arranged to hold it in fixed relation to the center of rotation, means for forcing the members toward each other, and a stop arranged to limit said movement, substantially as described.

- 1,423,269. AUTOMOBILE LOCK. DAVID C. SMITH, Toledo, Ohio. Filed Sept. 8, 1921. Serial No. 499,160. 6 Claims. (Cl. 70—129.)



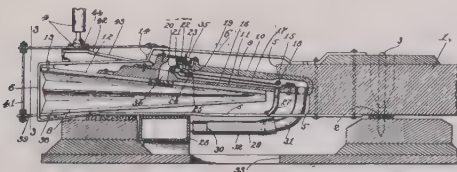
5. In a steering wheel and shaft locking means, a shell connected to the steering wheel and rotatable therewith, a bolt located in the shell for connecting the shell with the steering shaft, a key and a key controlled locking pin adapted to lock the bolt when withdrawn from its connecting position, and means for withdrawing the bolt from its connecting position independent of the operation of a key.

- 1,423,270. BANK BOOK AND SAVINGS BANK COMBINED. EDWARD D. SMITH, Erie, Pa. Filed Apr. 20, 1921. Serial No. 462,970. 4 Claims. (Cl. 229—8.5.)



1. A bank book and savings bank combined, comprising an account section and a savings bank section, the latter consisting of an intermediate part and inner and outer parts, having a circular opening, a revolvable disk mounted in said opening and provided with a plurality of coin receiving pockets, the edge of the intermediate part having a coin entrance opening, and a spring tensioned closure for said entrance opening, adapted to be moved to one side to permit the insertion of a coin into the pockets of the disk.

- 1,423,271. PIANO PLAYER. CHARLES H. SPENCER, Baltimore, Md., assignor to H. S. Dulaney, Baltimore, Md. Filed May 13, 1919. Serial No. 296,918. 8 Claims. (Cl. 84—50.)

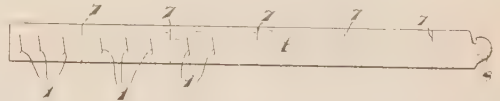


5. In a pneumatic piano player, a player unit comprising a bellows, air passages, valves controlling the pas-

sages, a diaphragm for operating said valves to connect the bellows to the outside air and the vacuum alternately, the diaphragm having an air escape opening, means for closing said opening when pressure is applied to the diaphragm to operate the valves and connect the bellows to the vacuum and uncovering it when the pressure is removed.

8. A piano key having a pneumatic unit wholly embodied therein to move therewith.

- 1,423,272. FOLDABLE CARTON. ERICH STEUDEL, Chicago, Ill. Filed Aug. 2, 1919. Serial No. 314,862. 3 Claims. (Cl. 229—16.)



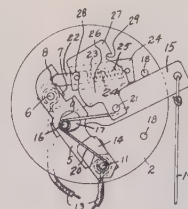
1. A foldable carton comprising a strip of flexible material transversely creased for bending along a plurality of lines adapted to form the corners of a carton having a desired plurality of sides; a plurality of slits in a plurality of said sides; and a securing tongue at one end of said strip adapted to be selectively engaged with said slits to form a carton of various desired sizes and shapes, substantially as described.

- 1,423,273. CHAIN LINK. ERICH W. O. STEUDEL, Chicago, Ill. Filed Mar. 8, 1920. Serial No. 364,282. 1 Claim. (Cl. 59—85.)



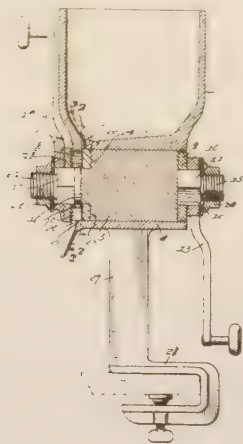
A detachable chain link formed of a single piece of wire bent into loop form, the ends of said link being correspondingly bent to form substantially circular eyes and converged inwardly toward each other to prevent lateral play of a related hook and brought together and formed into a hook having a curvature in substantial continuation of that of said eyes, to prevent accidental detachment of said link.

- 1,423,274. ELECTRIC SWITCH. CLARENCE C. STIRLING, Hartford, Conn. Filed Sept. 30, 1920. Serial No. 413,808. 9 Claims. (Cl. 200—67.)



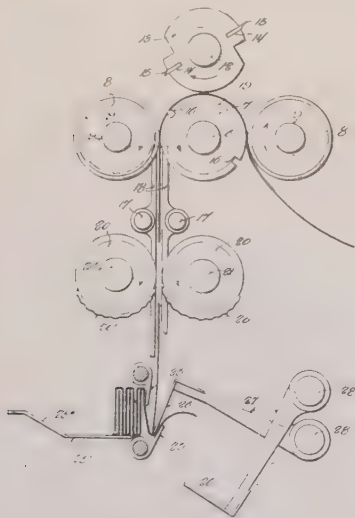
1. An electric switch comprising a switching member, an actuator, a rocking member, a spring actuated pin carried by the rocking member and co-operative with the switching member, the actuator having a part and also having means to cause said part to operate the rocking member successively in opposite directions on successive movements of the actuator, the rocking member on said successive movements of the actuator causing the pin to shift the switching member successively, between "on" and "off" positions.

1,423,275. GRAIN-GRINDING MACHINE. JAMES K. STRACHAN, Windsor, Ontario, Canada. Filed Feb. 25, 1922. Serial No. 539,166. 5 Claims. (Cl. 83-8.)



1. In a grinding machine as set forth, the combination with a casing having a hopper thereabove, an opening communicating with the hopper and the casing, one end of the casing having a stationary grinding grid, a revoluble burr mounted in said casing and provided on one end with diametrically opposite pockets to register with the opening of communication, to carry the grain from the opening to and between the burr and the grid for grinding and crushing the same, and a grinding plate carried by and rotatable with the burr and operating on the exterior of the grid, and means for operating the burr.

1,423,276. PAPER-FOLDING MACHINE. LOUIS A. STRAUBEL, Green Bay, Wis. Filed Apr. 9, 1921. Serial No. 460,066. 5 Claims. (Cl. 270-39.)



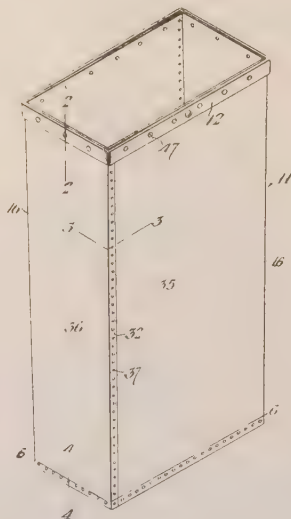
5. In a machine of the class described, the combination of means for partially cutting and feeding the work material, means for folding said work material into books of three or more leaves, and a pair of rollers driven at a greater speed than the feeding means for severing the cut portion of work material and delivering the same into the last fold of the preceding sheet.

1,423,277. PNEUMATIC TIRE. GEORGE E. STUART and CHARLES A. STUART, Oregon City, Oreg. Filed Jan. 7, 1920. Serial No. 349,931. 3 Claims. (Cl. 152-18.)



1. In a pneumatic tire, a series of cells having a vulcanizable envelope, a fibrous filling, and a puncture resisting strip arranged between the filling and envelope throughout a determinate area of such cell.

1,423,278. ICE CAN. HOWARD G. TALLERDAY, San Francisco, Calif., assignor to Western Pipe and Steel Company of California, a Corporation of California. Filed Apr. 28, 1921. Serial No. 465,321. 2 Claims. (Cl. 220-73.)

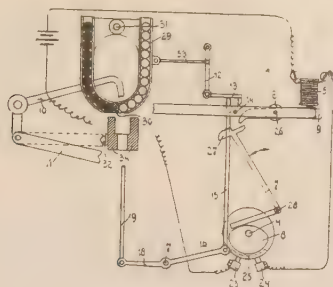


1. An ice can comprising a body portion; a reinforcing ring at the top; cut corners at the bottom of said body portion; channels formed by making a single bend inwardly and upwardly of the side plates between the cut corners; a bottom; a continuous flange of a single thickness on said bottom extending into said channels; reinforcing members having continuous corners in said channels between the flange of the bottom and the inside wall of the channel, the channel portion of the side plates, flange and reinforcing members being riveted together and treated with hot solder on the inside of the can along the joint between the sides of the can.

1,423,279. REPLENISHING MECHANISM FOR MULTI-COLOR LOOMS. HARRY TER KUILE, Enschede, Netherlands. Filed June 16, 1920. Serial No. 389,432. 2 Claims. (Cl. 139-85.)

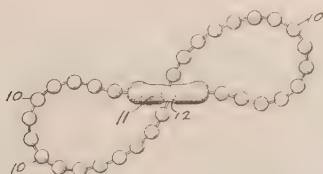
1. Automatic cops substituting mechanism comprising a cops store mounted for movement, a movable cops ejecting element, an operating rod, means for moving the cops store including a member arranged for engagement with and disengagement from said operating rod, means operated by loom shaft for moving said operating rod, a member carried by said rod to engage and disengage said loom shaft operated means, an electro-magnet to move said

engaging means to engaging position, circuit closing means including a member moved by said loom shaft, and means to normally hold said member of the cops store moving means out of engagement with the operating rod, a change box having an electric feeler, including a contact bow



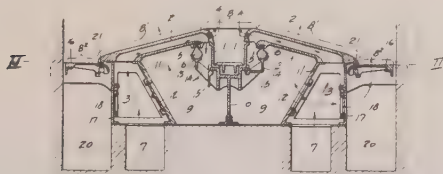
and a contact member for each of its compartments, and an electric circuit including the windings of said electro-magnet, said relatively fixed contacts, and a contact for successive engagement with the contact members of the change box.

1,423,280. KEY-CARRYING CHAIN. BENJAMIN URICH, Milwaukee, Wis. Filed Feb. 20, 1922. Serial No. 538,057. 3 Claims. (Cl. 59—99.)



1. In a key carrying chain, a shell socketed at its ends, a chain the ends of which are adapted to engage the sockets of the shell, and means on the shell for dividing the chain into a plurality of key holding sections.

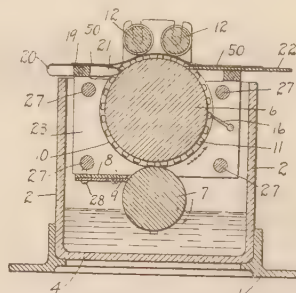
1,423,281. FURNACE. JOHN VAN BRUNT, New York, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed June 22, 1918. Serial No. 241,333. 9 Claims. (Cl. 110—47.)



5. In a stoker furnace a combination of a retort, a series of tubular grate bars extending therefrom, said bars having tuyère openings at their retort ends, a chamber located below the central portions of said bars, and a duct adapted to supply air directly both to the ends of said tubular bars remote from said retort and to said chamber, so that air from said duct may pass directly to and through said bars and discharge through said tuyère openings and air from said duct may pass directly to said chamber and escape therefrom between said bars, said bars having air passages between them.

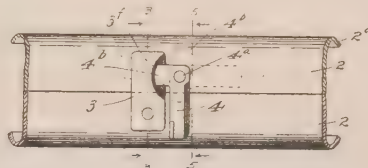
300 O. G.—33

1,423,282. PASTING MACHINE. LOUIS J. VAN GUELPEN, Cincinnati, Ohio. Filed Mar. 17, 1919. Serial No. 283,223. Renewed Feb. 15, 1922. Serial No. 536,818. 7 Claims. (Cl. 91—50.)



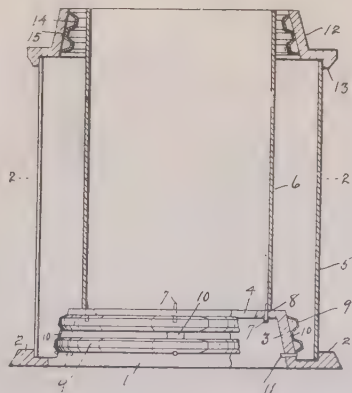
1. In a pasting machine of the character described, a paste feeding roll, a stripper therefor, a paste distributing roll, a stripper therefor, pressure rolls, and delivery fingers for receiving the material off of the paste distributing roll.

1,423,283. DEMOUNTABLE RIM. FRED H. VAN LOOZEN, Lakewood, Ohio. Filed Mar. 10, 1921. Serial No. 451,385. 4 Claims. (Cl. 301—35.)



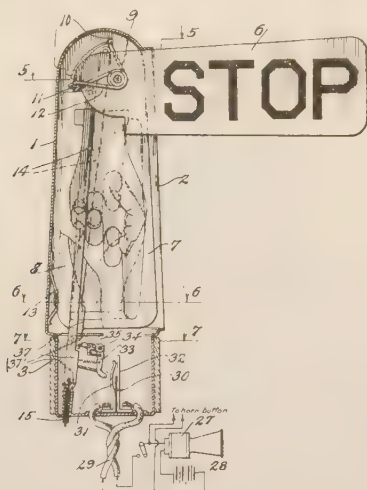
1. In a demountable rim, a pair of abutting circumferentially divided rim sections provided with subjacent spring coupling members, and lever members adapted in one position to hold said spring coupling members in locked position and in another position to engage and unlock the same.

1,423,284. FORM FOR CONCRETE PIPES. FREDERICK H. WEAVER, New York, N. Y. Filed July 12, 1921. Serial No. 484,037. 4 Claims. (Cl. 25—128.)



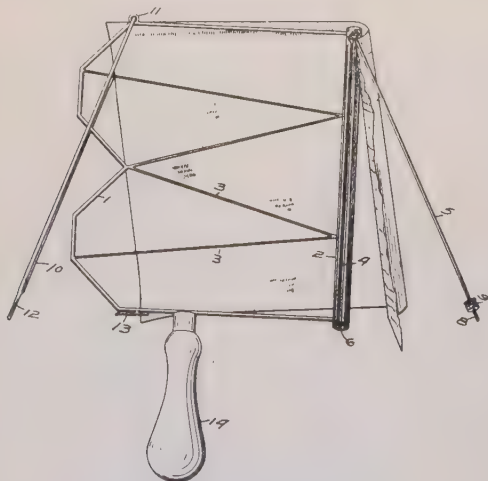
1. In a device for forming concrete pipes, a base, two split spring-rings fitted over said base and held thereon by friction.

1,423,285. VEHICLE SIGNAL. HARRY A. WHITMAN, Binghamton, N. Y., assignor to Selina J. Whitman, Binghamton, N. Y. Filed Apr. 1, 1920. Serial No. 370,443. 2 Claims. (Cl. 116—53.)



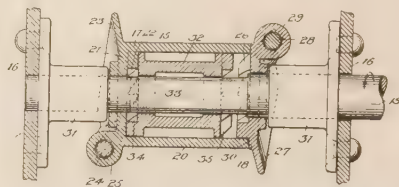
1. In a vehicle signal of the class described, the combination of a casing or housing made in sections, bolts extending transversely through said housing for holding said sections together, a plurality of signal arms mounted upon one of said bolts as a common axis for movement into signalling position, a stop shoulder on each of said arms arranged to engage with another of said bolts to limit movement of said arms into signalling position, spring means mounted upon the common axis and coacting with said stop shoulders and said second mentioned bolt to yieldingly oppose the movement of said arms into signalling position, and means connected to each of said arms for shifting the same into operative position.

1,423,286. PAPER HOLDER. SAMUEL WILLIAMS, Toledo, Ohio. Filed Dec. 12, 1921. Serial No. 521,593. 1 Claim. (Cl. 129—38.)



In a support for newspapers and the like, a frame having a slotted tubular member, a rod pivotally connected to one end of the slotted member, a burr threaded on one end of the rod and adapted to enter the other end of the tubular member, a pivoted slotted bar supported on the frame and extending on opposite sides of the frame, a catch for engaging the slotted bar for holding it in position.

1,423,287. HOPPER-DOOR MECHANISM. CLARENCE H. WILLIAMSON, Bellwood, Pa. Filed May 13, 1920. Serial No. 381,028. Renewed Mar. 16, 1922. Serial No. 544,356. 11 Claims. (Cl. 105—300.)



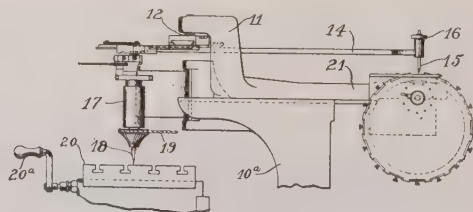
1. The combination with a hopper door operating mechanism having releasing and take up devices connected thereto, of a winding drum for said devices comprising differentially movable sections, means for rotating the winding drum and means operated by said rotating means for disconnecting one of the differentially movable drum sections therefrom.

1,423,288. DENTAL FASTENING FOR REMOVABLE BRIDGES AND PARTIAL PLATES. WILLIAM L. WITHERS, Salt Lake City, Utah. Filed May 15, 1922. Serial No. 561,154. 3 Claims. (Cl. 32—12.)



1. In a dental fastening, in combination, a keeper and an anchor, said keeper having an opening therein and a slot down the side for receiving said anchor, the bottom of said keeper being round, the sides of said keeper being bent inward and then outward, the bottom of said anchor being round and a loop formed therein, the sides of said anchor being bent inward and then outward to fit snugly within said keeper and to allow for a slight rocking movement.

1,423,289. ENGRAVING MACHINE. GEORGE R. WORNER, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Aug. 31, 1920. Serial No. 407,087. 9 Claims. (Cl. 33—23.)

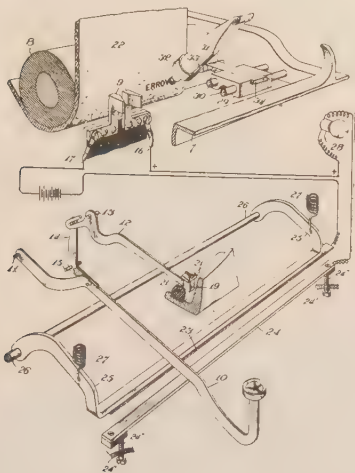


1. The combination with an engraving machine comprising a tracing element for guiding a tool, of a rotatable templet carrier having a plurality of templets arranged thereon in planes substantially parallel with its rotary axis and adapted to be brought by the rotation of the carrier selectively to position for cooperation with the tracing element.

1,423,290. MATRIX-MAKING MACHINE. ISAIAH N. ZELER, Chicago, Ill. Filed Mar. 7, 1919. Serial No. 281,253. 15 Claims. (Cl. 197—6.)

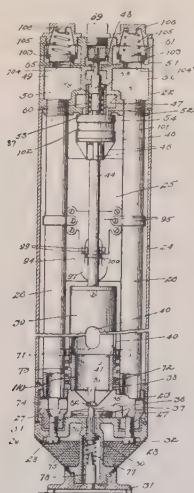
1. A matrix making machine comprising a platen, for the matrix blank, a pair of guides disposed in impression position with relation to the platen and projecting outwardly therefrom, an electric circuit including said guides, a plu-

rality of pivoted type-bars, type blocks bearing type characters mounted on said bars and adapted to contact with said guides to close said circuit before the type character



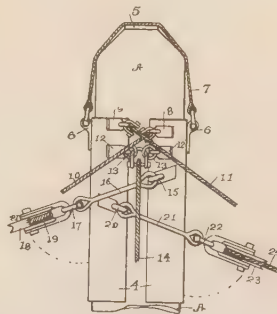
engages the matrix blank, means for swinging said type-bars separately to slide between said guides, and a matrix blank on said platen.

1,423,291. PUMP AND PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 16, 1915. Serial No. 50,941. 153 Claims. (Cl. 103—246.)



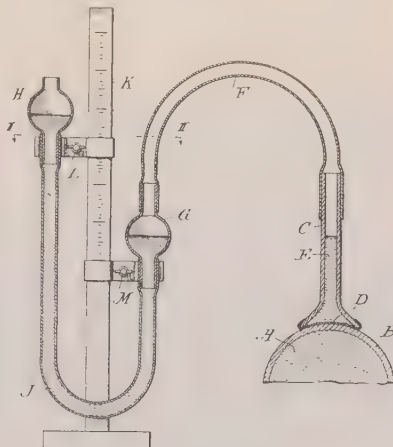
1. In a pump, the combination of a single chamber having inlet and outlet valves for the admission and expulsion of liquid, two ports, one for exhaust and one from a source of motive fluid, a mechanically connected valve structure for alternately closing one of said ports and opening the other, means moved by pressure of the motive fluid for opening the exhaust port and closing the compressed air port, and valve means lying within the chamber and controlled by the rise of liquid in said chamber for controlling the pressure operated means for closing the exhaust port and opening the port for motive fluid.

1,423,292. SPAR-TREE PROTECTOR AND FASTENING DEVICE FOR HIGH-LEAD BLOCKS. WILLIAM R. ALLEN and THOMAS K. McREA, Glacier, Wash.; said McRea assignor to said Allen. Filed July 18, 1921. Serial No. 485,778. 4 Claims. (Cl. 254—139.)



1. In combination, a spar tree, a pair of curved plates mounted on opposite sides of said tree and not entirely surrounding said tree, and a high-lead block fastened on one side of said tree to the plate on the opposite side of said tree from said block and adapted to bear on the plate adjacent to said block when not under operative strain.

1,423,293. TONOMETER. ALFRED AMSLER, Schaffhausen, Switzerland. Filed May 31, 1921. Serial No. 474,010. 2 Claims. (Cl. 73—44.)

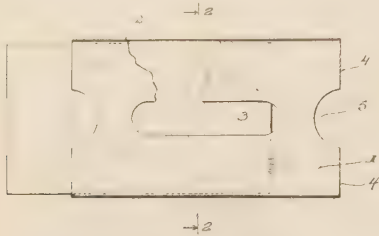


1. In a hydrostatic tonometer adapted to measure the constant internal pressure in vessels having flexible walls, such as the eyes, the combination of a tubular contact piece, a flexible diaphragm at one end thereof and a liquid in said tube the level of which is visible from the outside, means to apply a continuously variable and measureable fluid pressure over the liquid level in said contact piece until the pressures on both sides of the diaphragm are equal, the moment of said equalization of pressures being ascertained by a sudden change of the liquid level occurring in said tube upon the previously bulged in diaphragm beginning to flatten, and means to indicate the exact amount of the pressure acting upon the diaphragm at the moment of equalization of the pressures.

1,423,294. CARD HOLDER. ADOLPH ANDERSON, West Allis, Wis. Filed May 23, 1921. Serial No. 472,006. 2 Claims. (Cl. 206—39.)

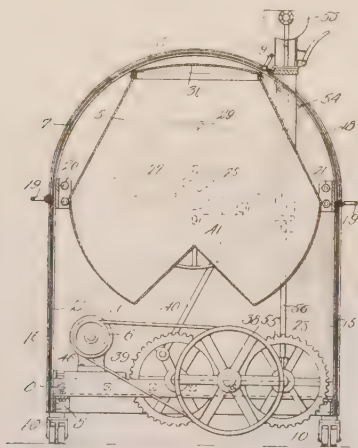
1. A card or ticket holder comprising a flattened tubular section open at its ends, the side walls of which

sections are centrally apertured and concavo convex so as to form inner longitudinal gripping surfaces for the tickets or card, the longitudinal edges being folded to



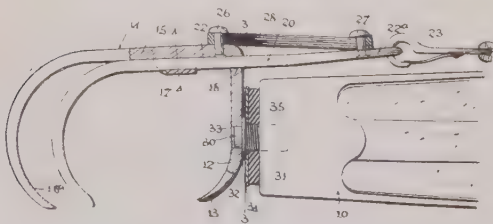
form loops, and the end edges of the jacket being formed with straight cutting surfaces intersected by central recesses.

1,423,295. WASHING MACHINE. ADOLPH F. ANDERSON, Chicago, Ill., assignor to Apex Appliance Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1919. Serial No. 336,362. 3 Claims. (Cl. 68—21.)



3. A washing machine having a housing with its longest axis in a vertical plane comprising two end walls each made from a single piece of sheet metal provided with an inwardly extending flange around three sides thereof, and a pair of fixed side walls and a slidable curved top wall held in position by the flanges of the end walls; a tub journaled in bearings supported on the end walls and means entirely within the housing to oscillate the tub.

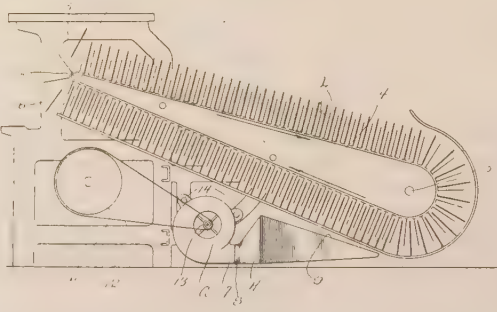
1,423,296. ARTIFICIAL BODY MEMBER. ROBERT FRANCIS ARMSTRONG, Kansas City, Mo. Filed Oct. 29, 1921. Serial No. 511,295. 6 Claims. (Cl. 3—12.)



6. In combination, a socket having a threaded opening, an artificial body member and means for releasably and adjustably connecting the artificial body member to the socket including a threaded stud carried by the artificial

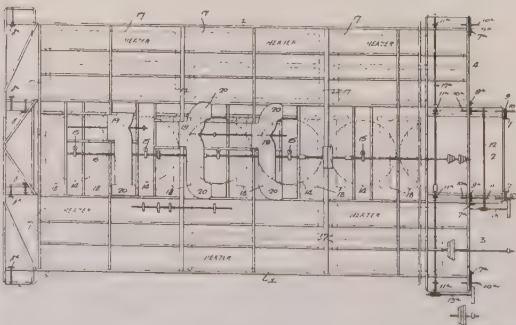
body member and engaged in the threaded opening of the socket member, a washer arranged on the threaded stud adjacent the artificial body member and a disk of rubber interposed between the washer and the socket member and compressed when the stud is threaded into its opening whereby the disk is effective to urge the threads of the stud and of the threaded opening into locking engagement with each other to releasably lock the body member to any position to which it may be adjusted relative to the socket.

1,423,297. DRYING BLOWER FOR ENVELOPE-MAKING MACHINES. ADDISON E. AUGUSTINE, Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,967. 6 Claims. (Cl. 34—12.)



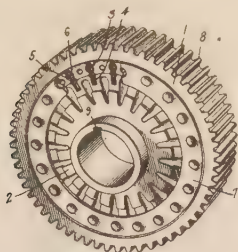
6. An air box for drying blowers comprising a box otherwise closed on all sides but having an air receiving opening in one wall and having a plurality of air discharge openings in another wall, the air discharge openings providing a greater area of discharge for the air nearest to said air receiving opening and relatively less area of discharge further from said air receiving opening, and said box being of a size greatest nearer said air receiving opening and being tapered to a smaller size further from said air receiving opening.

1,423,298. DRIER. ELWOOD B. AYRES and THOMAS H. RHODES, Philadelphia, Pa., assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1921. Serial No. 481,793. 4 Claims. (Cl. 34—12.)



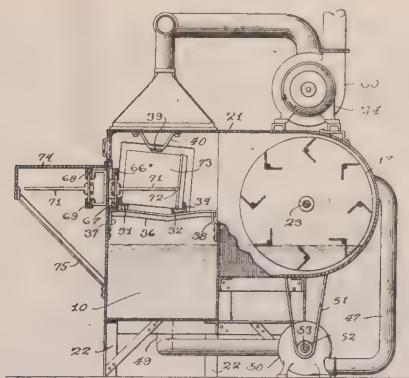
2. The combination in a drier, of a casing enclosing three longitudinal chambers arranged side by side; a conveyor for carrying material to be dried in each chamber; a central row of circulating fans in the upper portion of the central drying chamber; a series of heating pipes in the upper portion of the drier; and means for driving the fans so that the air will circulate downwards in the central chamber and upwards in the side chambers.

1,423,299. RESILIENT WHEEL. ASA F. BATCHELDER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 16, 1921. Serial No. 522,895. 4 Claims. (Cl. 74—29.)



1. A resilient wheel comprising an outer member in the form of a ring and having substantially radial slots in its inner periphery, an inner member cooperating with said outer member and having substantially radial slots in its outer periphery registering with said slots in the outer member, the inside diameter of the outer member and the outside diameter of the inner member being approximately equal, and leaf springs in said slots, said springs being placed in said slots under tension.

1,423,300. MACHINE FOR WASHING BOXES, CANS, AND OTHER ARTICLES. GEORGE S. BLAKESLEE, Chicago, Ill. Filed Feb. 23, 1917. Serial No. 150,474. 15 Claims. (Cl. 141—7.)

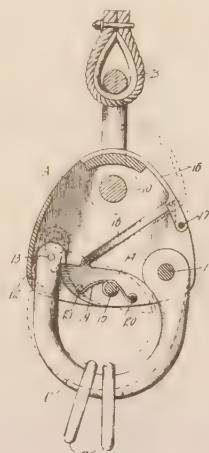


3. A washing machine of the character described comprising a housing substantially enclosing a cleansing compartment, means for supporting the articles to be cleansed in an inclined position as they pass through the cleansing compartment, a tank, a paddle wheel at one side of the cleansing compartment operating to throw water from said tank into and around the articles to be washed, and means at the opposite side of said housing from said paddle wheel for moving the articles through the cleansing compartment.

1,423,301. LOGGING HOOK. GOTTFRIED BETCHER, Portland, Oreg. Filed Aug. 5, 1920. Serial No. 401,344. 8 Claims. (Cl. 294—83.)

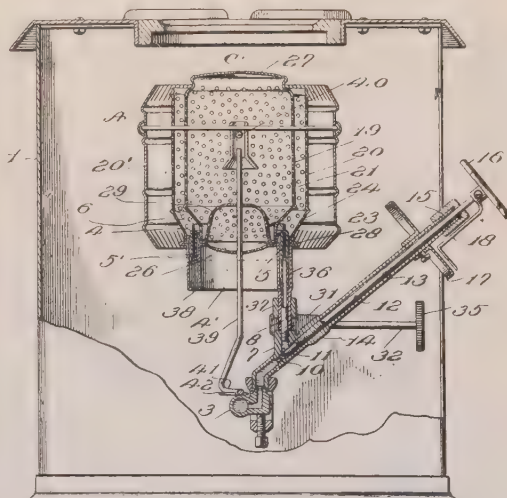
1. In a device of the character described, the combination of a housing, a hook mounted therein and pivoted

at one end, a pivoted member adapted to engage both ends of the hook and to support the hook at its free end,



and means for operating said pivoted member, substantially as set forth.

1,423,302. WICKLESS OIL BURNER. ATWELL J. BLACKFORD, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Aug. 31, 1921. Serial No. 497,208. 15 Claims. (Cl. 158—86.)



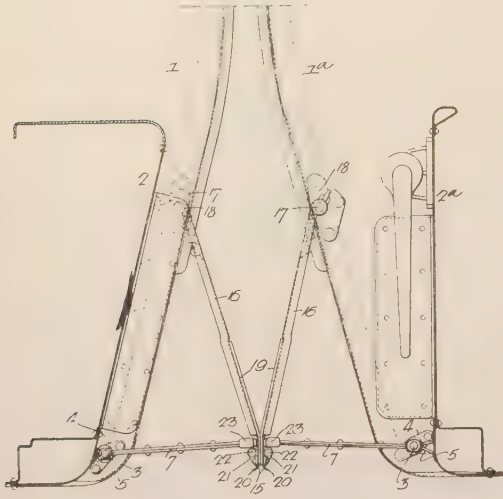
1. A burner comprising a trough, a combustion section seated above the trough with its lower end around the upper end of the trough, and the combustion section vertically adjustable in relation to the trough without disturbing its operative position to the trough, for regulating the flame.

1,423,303. SAFETY GATE FOR CARS. JAMES A. BROOKS, Philadelphia, Pa., assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 3, 1921. Serial No. 519,730. 2 Claims. (Cl. 105—439.)

2. The combination in a safety gate for cars, of two cars; a post pivotally mounted on each car at one end

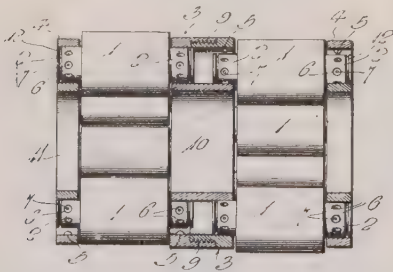
and near one side; a collapsible gate consisting of a series of bars pivotally connected to the upper end of the post; a plunger located within the post and to which the lower end of the gate is pivoted; a coiled spring

weighing mechanism; a discharge pipe from the tank leading through an aperture in the top of the container to near the bottom thereof and discharging upward; all



within the post bearing against the plunger so as to project the gate; an arm pivoted to the car platform some distance from the side, and an abutment bar attached to the arm and connected to the gate.

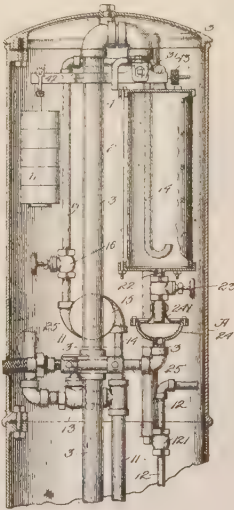
1,423,304. ROLLER BEARING. WILLIAM D. BURNS, Amenia, N. Y. Filed Apr. 25, 1921. Serial No. 464,093. 2 Claims. (Cl. 64—60.)



1. A roller bearing comprising two series of rollers, the rollers of one series being staggered with respect to those of the other, the ends of all rollers being reduced, a relatively wide track ring on which the inner reduced ends of the rollers are adapted to roll, and relatively narrow track rings upon which the outer reduced ends of said rollers travel, said roller ends and track rings having intermeshing gear faces.

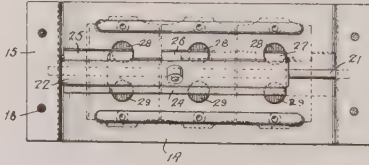
1,423,305. LIQUID MEASURING AND DISPENSING APPARATUS. TIMOTHY F. CALLAHAN, Squantum, Mass. Filed Sept. 2, 1919. Serial No. 321,119. 2 Claims. (Cl. 265—27.)

1. In liquid measuring and dispensing apparatus; a storage tank; a compressed air pipe leading to the top of the tank; a standard; a weighing mechanism supported by that standard; a graduated container carried by the



combined to cause the liquid to rise to the container by air pressure and the liquid to be simultaneously measured by volume and weight.

1,423,306. ELECTRIC SWITCH. HOYT CATLIN, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 31, 1920. Serial No. 355,320. 3 Claims. (Cl. 200—18.)

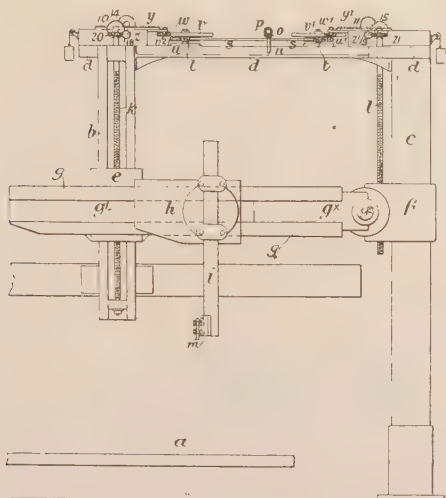


1. A group of independent switch mechanisms, a common control lever to operate the same, said control lever being displaceable longitudinally with respect to the several switch mechanisms, and means fixedly associated with said lever for operating certain of said switches at will, singly or in groups, depending upon the longitudinal position of the lever.

1,423,307. MACHINE FOR PLANING OR MACHINING PROPELLER BLADES. GILBERT AUSTIN CLAVEY, Battersea Park, England. Filed Oct. 19, 1920. Serial No. 418,022. 8 Claims. (Cl. 90—31.)

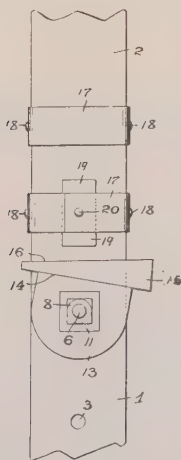
1. An apparatus for machining propeller blades and like helical surfaces, comprising a power driven revoluble table, a tool radially reciprocable across said table, a tool feed mechanism adapted for feeding said tool per-

pendicularly to the table and in the direction of the pitch, and cam control mechanism operative upon said tool



feed for changing said feed in accordance with the varying shape of the helical surface.

1,423,308. STAGING FOR BUILDINGS AND OTHER STRUCTURES. SAMUEL S. COLT, Orange, N. J. Filed Oct. 27, 1920. Serial No. 419,814. 4 Claims. (Cl. 248—21.)

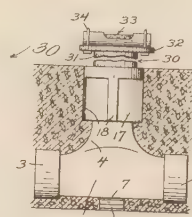


1. In a staging or similar structure, a pair of retaining members having portions arranged side by side, a bolt connected with one of said members, a wedge-receiving element oscillatorily mounted upon said bolt, and a wedge disposed between said wedge-receiving element and the other retaining member for adjustment of said members.

1,423,309. ELECTRICAL CONDUIT SYSTEM. EGBERT H. CURTIS, Spring Valley, N. Y. Filed July 6, 1918. Serial No. 243,514. 3 Claims. (Cl. 247—27.)

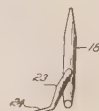
1. An approximately T-shaped hollow body having horizontal tubular arms and a vertical tubular arm, an at-

taching element secured to the bottom of the hollow body for securing the same in place, in combination with a



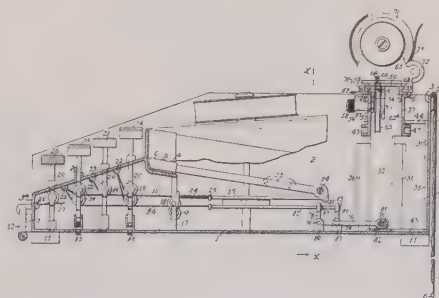
tube for detachable connection with the vertical tubular arm, and a level, element connected with the upper end of the tube and extending transversely thereof.

1,423,310. WINDOW-SASH FASTENER. ALONZO E. DAVIS, Ashtabula, Ohio. Filed Jan. 14, 1921. Serial No. 437,139. 7 Claims. (Cl. 292—228.)



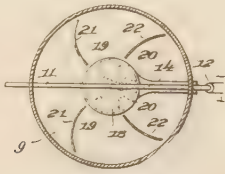
1. A window fastening having in combination a plate adapted to be secured to the top of the lower sash and having an opening in it, a pawl pivoted to the plate and adapted to engage a shoulder on the upper sash, a leaf spring extending through the opening of the plate and secured between it and the top of the sash, said spring extending upwardly and engaging the front of the pawl, and a lever member rigidly secured to the side of the pawl and extending laterally therefrom and then downwardly and terminating in a thumb piece lying adjacent to but above the top of the sash.

1,423,311. TYPEWRITING MACHINE. PHILIPPE DE CLAMECY, Boston, Mass., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 21, 1920. Serial No. 352,927. 13 Claims. (Cl. 197—186.)



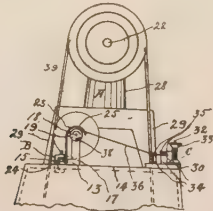
1. In a typewriting machine, the combination of a carriage supporting frame, a carriage support mounted on said frame to turn around a center that extends fore and aft of the machine and also to slide on said frame, and a carriage mounted to travel on said support.

1,423,312. FLUID-FUEL BURNER. THOMAS SIEGER DEER, Brookline, Mass. Filed Jan. 16, 1920. Serial No. 351,828. 10 Claims. (Cl. 158—29.)



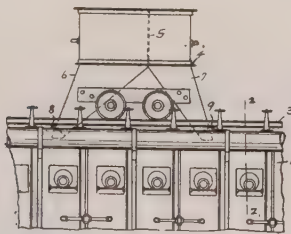
1. A hollow cylindrical fuel burner head having perforated side walls and a plurality of vanes adapted to distribute fuel substantially uniformly to the perforations.

1,423,313. BOBBIN WINDER. PHILIP FAIRCLEUGH DOUGLAS, Minnedosa, Canada. Filed Feb. 16, 1921. Serial No. 445,529. 4 Claims. (Cl. 242—22.)



1. A device of the kind described comprising a suitably supported spindle adapted to receive a bobbin in intimate relation therewith, a member forming a hood over the bobbin, an opening in the face of the hood, means to feed thread to the bobbin through the opening in the hood, means to rotate the spindle from the sewing machine to fill the bobbin and a slit upwardly directed from the opening in the hood in which the thread jams to stop rotation of the spindle when the bobbin is full.

1,423,314. CHARGING CAR. FERDINAND FIECHTL, Cheryvale, Kans. Original application filed Jan. 23, 1921, Serial No. 440,761. Divided and this application filed July 12, 1921. Serial No. 484,158. 2 Claims. (Cl. 105—248.)

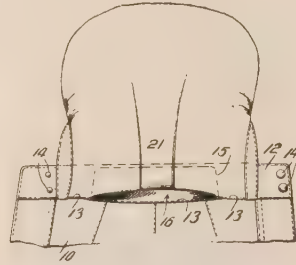


1. A furnace charging car including a suitable body, a transverse partition separating the body into end compartments, a pair of hoppers into which each compartment is formed, each hopper being extended downwardly forming a down spout and a gate controlling the discharge of material through each down spout.

1,423,315. RAIN CAPE. LEOPOLD H. GEIS, Mount Arlington, N. J., assignor to New York Mackintosh Clothing Co., New York, N. Y., a Corporation of New York. Filed June 10, 1921. Serial No. 476,399. 6 Claims. (Cl. 2—60.)

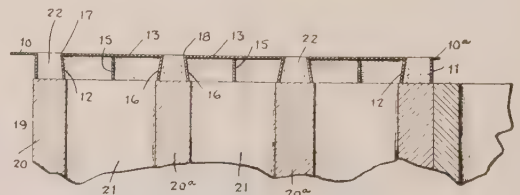
1. A garment of the character described comprising a cape to be fastened around the neck of the wearer and a hood to be worn on the head and secured at its lower edge to the neck-portion of said cape, said garment at the back

of the neck having a horizontally disposed open mouthed pocket extending inwardly and closed at its inner portion to protect the neck of the wearer, said pocket comprising an inner part secured to the upper edge of the cape and an outer part connected with said inner part and capable of being turned upwardly and to the outer free edge of which the lower edge of the hood at the back of the neck is secured, whereby said pocket is adapted to open upwardly when the head is thrust forwardly and thus afford an extension along the lines of the strain created by such movement of the head, whereby the garment is saved from injury and the hood is permitted to remain comfortably on the head.



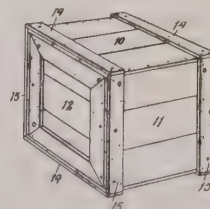
6. A garment of the character described comprising a cape, a neck-band fastened thereto and to be secured around the neck of the wearer, and a hood fastened at its lower edges to the neck-band and cape at the lower edge of the neck-band and having at the lower portion of its back a vertical box-pleat free to collapse inwardly on an upward strain on the hood and to expand laterally to meet variations of head conditions.

1,423,316. MORTAR SPREADER. JOHN GIOVAGNOLI, Flushing, N. Y., assignor of two-thirds to Roberts, Nash & Company, Inc., Flushing, N. Y., a Corporation of New York. Filed May 10, 1921. Serial No. 468,447. 2 Claims. (Cl. 72—128.)



1. As an improved article of manufacture, a mortar spreader having longitudinal and transverse channels adapted to register with the walls of a hollow tile or the like, said spreader having a plane top surface, and having the lower edges of the channel walls also in a plane parallel with the top surface, the outer side walls of the spreader being left flat and unobstructed and projecting on all sides beyond the outer channel wall to form handles.

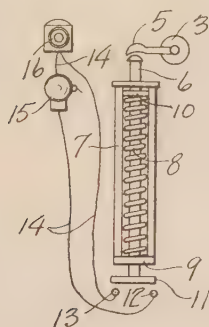
1,423,317. WOODEN SHIPPING CASE. ABRAHAM H. GODKEVITCH, New York, N. Y. Filed Nov. 15, 1921. Serial No. 515,221. 10 Claims. (Cl. 217—56.)



1. A shipping case having a fastening device including a member secured to and engaging a side and an end wall of

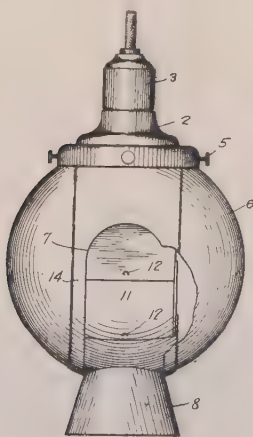
the case at a corner, and a member secured to the third wall at said corner, and engaging with said first mentioned member to lock said third wall to both of the other two walls upon the closing of the case.

1,423,318. SIGNALING DEVICE FOR RAILROADS. OLIVER GREEN, Michigan City, Ind. Filed Feb. 27, 1922. Serial No. 539,408. 1 Claim. (Cl. 246—196.)



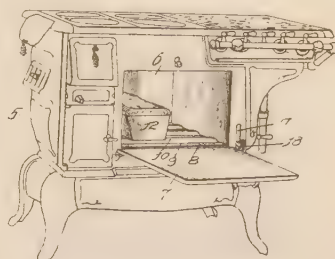
A signaling device for railway locomotives, comprising a casing outside the locomotive cab; a shaft journaled through the casing, the outer end having a depending contact arm and the inner end a depressor arm; a guide mounted inside the cab; a spring set contact pin slidingly mounted in the guide beneath the depressor arm; an insulated contact strip at the lower end of the contact pin; an electrical circuit embodying a bell and red light and two contacts adapted to be closed by the contact strip on the depression of the contact pin; and an adjustable arm mounted alongside the track and adapted to be impinged by the contact arm extended from the cab.

1,423,319. LAMP SHADE. MEYER GREITZER, New York, N. Y. Filed Aug. 31, 1921. Serial No. 497,082. 6 Claims. (Cl. 240—108.)



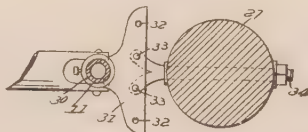
1. A lamp shade, comprising a spherical member adapted to be removably secured to a lamp and provided with an elongated opening, a light-directing member movable within said opening, and means for closing the portions of the opening not occupied by said movable member.

1,423,320. UTENSIL-HANDLING DEVICE FOR BAKE OVENS. RUPERT HAAS, St. Louis, Mo. Filed July 18, 1921. Serial No. 485,471. 4 Claims. (Cl. 126—337.)



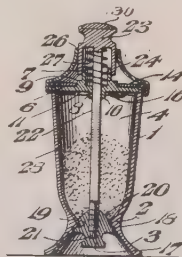
1. A utensil handling device for bake ovens, comprising a plurality of rollers located in a bake oven, and a combined lever and crank arm mechanism for rotating said rollers in either direction.

1,423,321. GATE HINGE. HENRY T. HACKER, Lovell, Wyo. Filed July 29, 1920. Serial No. 399,963. 2 Claims. (Cl. 16—131.)



1. The combination with a gate and gate post, of means carried by the post adjacent the bottom thereof and having a pivotal connection with the gate adjacent the bottom and at that end adjacent the post, and a hinge connecting the gate with the post adjacent the top of the gate and comprising a duality of elements of which one is fixedly mounted in the post and the other pivotally connected with the gate and adjustable laterally of the fixed member to deflect the gate laterally at the top for the purpose specified.

1,423,322. CONDIMENT DISPENSER OR CONTAINER. CHARLES H. HAESELER, Philadelphia, Pa. Filed Mar 25, 1922. Serial No. 546,677. 3 Claims. (Cl. 65—57.)

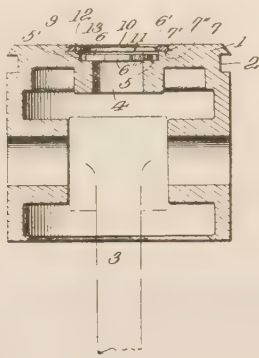


1. A condiment dispenser comprising a casing having an open end, a cross bar carried at said open end, a cover, and a disc closing one end of said cover and having means to lock with said cross bar to secure the cover with respect thereto.

1,423,323. VALVE CONSTRUCTION. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed Apr. 14, 1921. Serial No. 461,323. 9 Claims. (Cl. 251—127.)

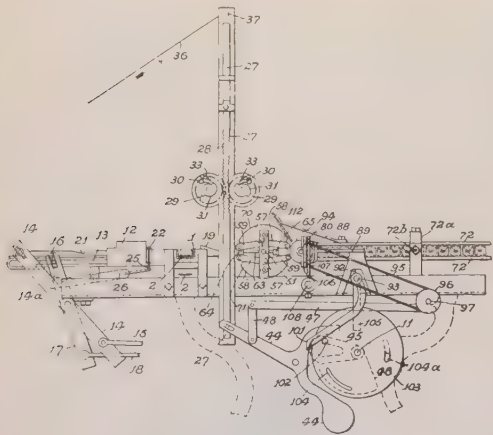
6. An improved valve construction comprising a body provided with an opening, inner and outer flanges sur-

rounding the opening, a flat valve carried upon the inner flange and adapted to close the opening, and a valve retaining ring member greater in width than the outer



flange expanded between the outer flange and its surrounding wall and extending beyond the inner edge of the flange, for the purpose described.

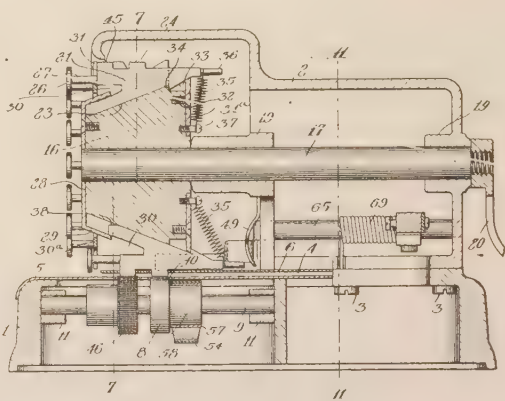
1,423,324. WRAPPING MACHINE. FRANCIS HEATH, Huddersfield, England, assignor to The Heath Wrapper Company, Littlemoor, Mirfield, England. Filed Nov. 26, 1920. Serial No. 426,435. 12 Claims. (Cl. 93—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In a wrapping machine, a conveyer for the blanks, a guide arranged crosswise of the conveyer, a pusher slidable in the said guide under the conveyer and having a positioning device at its front end, a slide arranged above the conveyer and adapted to push a blank off it into engagement with the said positioning device, and means for sliding the pusher and the slide independently of each other.

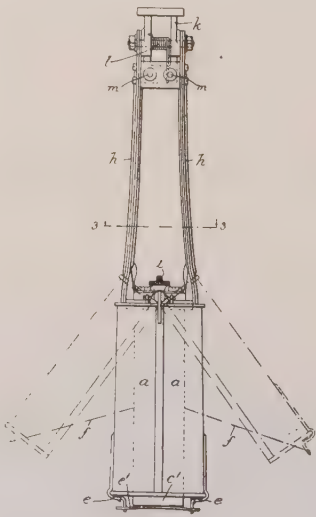
6. In a wrapping machine, a slidable pusher; a wrapping and conveying device adapted to receive a blank and a sheet of wrapping material from the pusher, said device comprising a revoluble frame, an endless apron supported by the frame, crossbars secured to the end portions of the apron and operatively connected together, and means for revolving the frame intermittently to place the said crossbars alternately in the path of the pusher, the crossbar for the time being on the inlet side of the device being adapted to form a pocket in the apron in which the blank is positioned by the pusher, and the other crossbar being adapted to eject the previously inserted blank.

1,423,325. PRINTING MACHINE. JOHN HEBERLING, Rochester, N. Y. Filed Apr. 26, 1921. Serial No. 464,522. 41 Claims. (Cl. 101—19.)



1. A printing machine comprising a platen, a rotary carrier, and a plurality of printing elements mounted on said carrier and movable radially and axially of the carrier to and from a printing position for cooperation with the platen.

1,423,326. LANDING LIGHT OR FLARE FOR ATTACHING TO AIRCRAFT. HAROLD EDWARD SHERWIN HOLT, Farnborough, England. Filed Nov. 26, 1921. Serial No. 518,021. 10 Claims. (Cl. 240—1.)

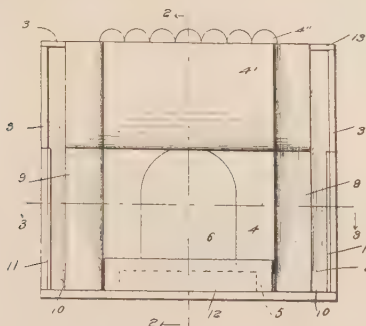


6. A landing light comprising a flare holder, a flare body carried thereby and provided with igniting means, a shade attached to the flare holder and capable of being opened and closed, and means connecting the flare body and shade and controlled by the burning of the flare to regulate the opening of the shade.

1,423,327. BANK-WINDOW SHIELD. HARRY W. HUNTERESS, Turlock, Calif. Filed June 22, 1920. Serial No. 390,787. 4 Claims. (Cl. 20—1.01.)

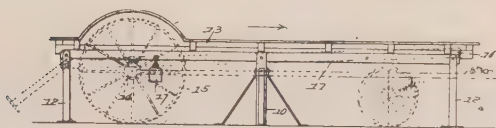
1. In combination with a counter, a shield rising therefrom, a side wall spaced therefrom, said shield having a

door, fastening means for the door on the interior thereof and of said shield and the shield adjacent said side



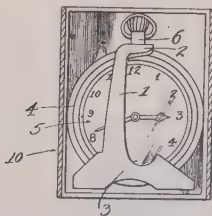
wall extending rearwardly to protect the fastening means against unauthorized opening.

1,423,328. HAY-RACK LIFT. JOSEPH ANTON JOHNSON, Blue Earth, Minn. Filed July 9, 1920. Serial No. 395,097. 1 Claim. (Cl. 254-50.)



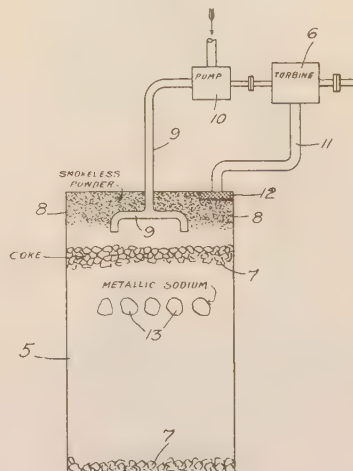
A hay rack lift having intermediately fulcrumed tilting rails arranged in parallelism and spaced at an interval exceeding the width of a wagon running gear, foldable tilting supports for each end of each rail pivotally connected with the latter and designed to rest upon the surface traversed by the wagon running gear, the rails being provided with stops at one extremity for engagement with a rack supported by the wagon, and counterweights mounted upon the rails adjacent the other extremity for maintaining the said extremities depressed when the foldable supports at that end are displaced.

1,423,329. SHIPPING PACKAGE FOR WATCHES. HENRY C. KARR, Washington, D. C., assignor of one-fifth to Emil Bonnelycke, Washington, D. C. Original application filed Feb. 18, 1921, Serial No. 446,067. Divided and this application filed May 26, 1921. Serial No. 472,815. 3 Claims. (Cl. 206-18.)



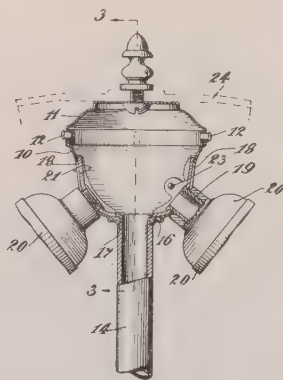
1. An improved shipping package for watches, comprising a box; a spring yoke laid flatwise therein and embodying a pair of spaced legs and a bridge connecting the same; and a watch inserted sideways between said legs and having its stem engaged with said bridge, so that one leg overlies and the other leg underlies the watch to cushion the latter against shocks imparted to the box.

1,423,330. PRESSURE GENERATOR. ALEXANDER T. KASLEY, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Nov. 16, 1918. Serial No. 262,914. 5 Claims. (Cl. 60-42.)



1. In a pressure generator, a closed combustion chamber containing a fuel, means for delivering an oxygen bearing solution to the fuel, and means for initially heating the fuel in response to an influx of solution.

1,423,331. LIGHTING FIXTURE. KARL KELLER, Brooklyn, N. Y., assignor to J. H. White Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 1, 1921. Serial No. 497,651. 3 Claims. (Cl. 240-78.)

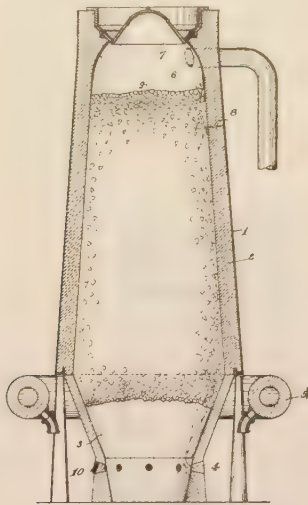


1. A lighting fixture comprising a shell provided with a plurality of spaced slots, shutters having a lug on one side with a threaded hole therein, set screws passing through holes in the shell and through said threaded holes in the lugs whereby said shutters are pivotally secured to the shell covering the slots therein at all times, and socket nipples carried by said shutters projecting through the slots in the shell.

1,423,332. PROCESS FOR THE SEALING OF CRACKS IN THE LINING OF BLAST FURNACES AND THE LIKE. THOMAS KENNAN, Birmingham, Ala. Filed Jan. 14, 1922. Serial No. 529,340. 4 Claims. (Cl. 266-1.)

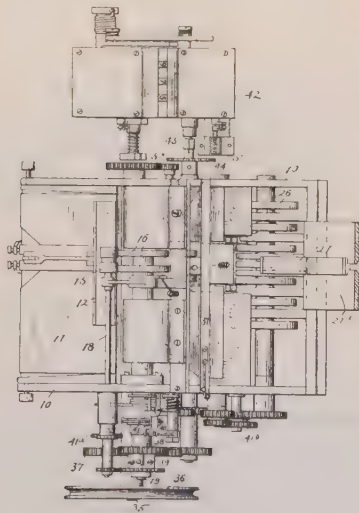
1. The hereindescribed process for the sealing of cracks in the lining of blast furnaces and the like, which con-

sists in raising the stock level above the cracked zone and concentrating a flow of air through the stock adjacent



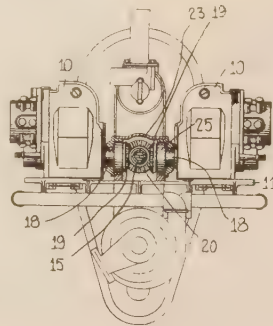
to and above the cracked zone to cause the same to melt and run down the furnace lining and enter the crack.

1,423,333. REGISTER-OPERATING MECHANISM. ROBERT E. KIMBALL, Cleveland, Ohio, assignor to The Tickometer Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Oct. 22, 1915, Serial No. 57,285. Divided and this application filed Sept. 8, 1919. Serial No. 322,369. 9 Claims. (Cl. 235—98.)



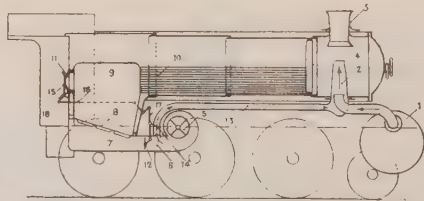
1. In a machine for counting transfers, tickets or similar devices having feeding means for feeding the devices one at a time therethrough, a shaft for operating a register for counting the devices as they are fed through the machine, means for operating the shaft including a continuously rotating member and a second rotary member engageable with but normally disengaged from the first, and means controlled by the movement of the devices from the support for causing direct intermittent driving engagement between said continuously rotating member and said second rotary member.

1,423,334. MAGNETO GEARING. CHARLES B. KIRKHAM, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Original application filed May 18, 1916, Serial No. 93,336. Divided and this application filed Aug. 10, 1917. Serial No. 185,517. 6 Claims. (Cl. 290—1.)



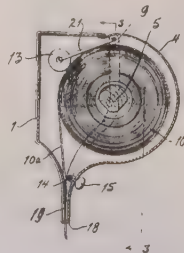
3. In an internal combustion engine of the reversible type comprising an engine frame, a crank shaft capable of being driven in a reverse direction, dual opposed magnetos mounted upon one end of the engine frame and a driving connection between said shaft and said magnetos comprising a single reversible element incorporated therein to provide for the operation of the magnetos in the same direction upon the reversal of rotation of the shaft.

1,423,335. STEAM BOILER WITH FORCED-DRAFT FURNACE. CONRAD KOHLER, Zurich, Switzerland. Filed Mar. 17, 1920. Serial No. 366,659. 5 Claims. (Cl. 110—147.)



1. In a steam-boiler with forced draft-furnace, the combination of a furnace consisting of a fire-box with fire door and closed ash-pit, an under-grate blower, a conduit connecting the blower and ash pit, a blast device, means including said conduit connecting the ash pit with the blast device, and means for opening and closing the conduit and said connecting means so that the pressure above atmospheric inside the fire box is removed and an under-pressure is generated.

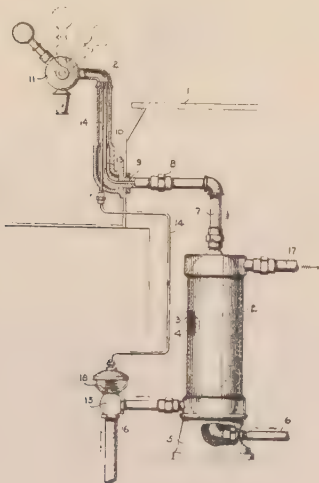
1,423,336. SANITARY CONTAINER. GUSTAV KORITKE, Long Island City, N. Y. Filed Nov. 9, 1920. Serial No. 422,765. 1 Claim. (Cl. 211—32.)



A roll paper container comprising a rigid frame, a hinged casing attached thereto, opposed spring latching

means for holding said casing in normal position on said frame, releasing means therefor, a drum rotatable in the frame, said drum being adapted to carry a roll of paper, a weight roll bearing against said paper roll, lever arms pivoted in the sides of said frame for supporting said roll, serrated means at the bottom edge of said casing for perforating the paper, and means formed with said casing whereby the paper may be manually withdrawn.

- 1,423,337. AUTOMATIC WATER-COOLING SYSTEM. OTTO A. LABUS, Wisconsin Rapids, Wis. Filed Nov. 3, 1921. Serial No. 512,560. 5 Claims. (Cl. 225—21.)

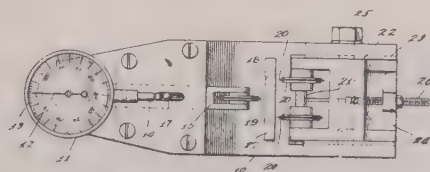


1. In an automatic water cooling system, a duct for refrigerants, another duct for water to be cooled and arranged in heat exchanging relation to the first-named duct, a faucet for the escape of water from the second duct, and an automatic valve responsive to variations in the water pressure in the second duct, due to opening and closing of the faucet, and in turn included in and controlling the flow of the refrigerant to said first-named duct.

- 1,423,338. ALLOY AND THE METHOD OF PRODUCING SAME. CLEMENS A. LAISE, Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Sept. 13, 1920. Serial No. 409,964. 23 Claims. (Cl. 75—1.)

1. An alloy comprising tungsten, gold and vanadium, the tungsten predominating and the vanadium constituting about 0.1 per cent of the weight of said alloy.

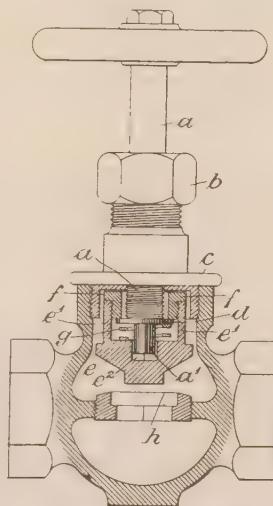
- 1,423,339. SCREW GAUGE. CARL ASTOR LEDELL, Connersville, Ind. Filed Nov. 16, 1921. Serial No. 515,488. 11 Claims. (Cl. 33—147.)



1. A thread measuring instrument comprising a main body, a roller provided with a circumferential portion

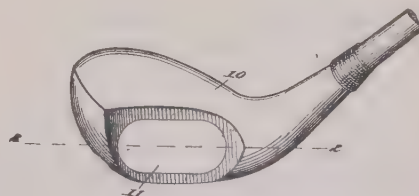
formed to coact with the threads of the threaded element, means for yieldingly urging said roller transversely of its axis, an indicator, intermediate connections between the indicator and the roller to indicate variation of lateral position of the roller, and an abutment for the threaded member arranged in opposition to said roller.

- 1,423,340. VALVE. THOMAS WILLIAM LEES, Halifax, England. Filed Apr. 22, 1922. Serial No. 556,098. 2 Claims. (Cl. 251—38.)



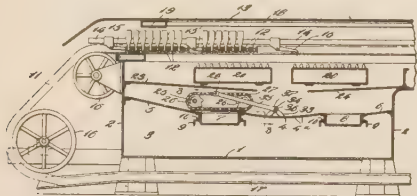
1. A valve comprising in combination a casing, a stuffing box and nut in the upper part thereof, a screwed spindle working through said stuffing box and nut, a collar on said spindle, an annular member fitting loosely on the spindle, a seat opening, a valve disc adapted to close said opening having on its back a hollow stem into which the annular member is screwed, said member being adapted to engage the collar on the side remote from the disc, a spring confined on the spindle between the upper side of the disc and the collar and normally acting to hold the annular member against the collar, a driving recess in the upper side of the disc and a driving projection on the end of the spindle fitting in the recess, said recess being of such a depth as will permit of a certain longitudinal movement of the spindle relatively to the disc as the valve is being closed but will cause the end of the spindle to contact with the base of the recess before the spring is fully compressed.

- 1,423,341. STRIKER PLATE FOR GOLF CLUBS. GEORGE A. LIPPINCOTT, Philadelphia, Pa. Filed Aug. 4, 1921. Serial No. 489,791. 7 Claims. (Cl. 46—4.)



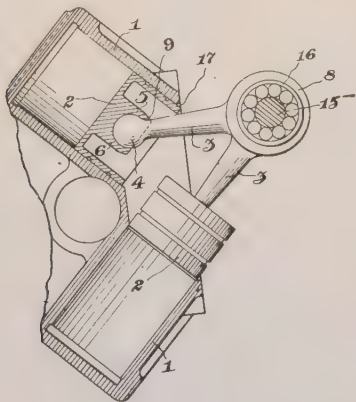
1. A striker plate for golf clubs formed of a suitable shaped section of the shell of a suitably thick and relatively non-brittle mollusk.

1,423,342. LABEL SEPARATOR AND REMOVER FOR BOTTLE-WASHING APPARATUS. CHARLES H. LOEW and JOHN R. GRUETTER, Cleveland, Ohio, assignors to The Loew Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Mar. 17, 1917, Serial No. 155,422. Divided and this application filed June 30, 1919. Serial No. 307,840. 5 Claims. (Cl. 141—7.)



2. In an apparatus of the character described, the combination of a shelf, a bottle support above said shelf, a label receiving device below said shelf, and means movable along said shelf for removing labels therefrom and delivering the same to the said device.

1,423,343. PISTON AND CONNECTING ROD CONSTRUCTION. ROBERT A. LUNDELL, New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Apr. 18, 1918, Serial No. 229,306. Patent No. 1,371,701, dated Mar. 15, 1921. Divided and this application filed Oct. 23, 1920. Serial No. 418,889. 4 Claims. (Cl. 121—120.)

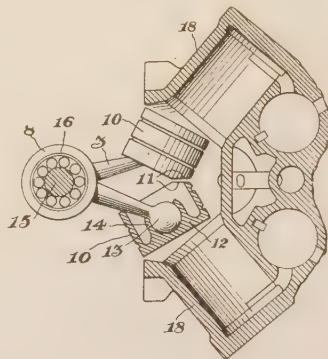


1. A multiple cylinder V-type fluid pressure motor, having a crank shaft and crank, cylinders located at equal acute angles on opposite sides of a plane passing through the axis of the crank shaft, pistons adapted to operate in the cylinders, connecting rods pivotedly connected to said pistons and adapted to be assembled on the same crank pin before inserting the pistons into the cylinders, and means permitting said pistons to be inserted in the cylinders longitudinally after the connecting rods have first been assembled in the pistons and on the crank pin.

1,423,344. PISTON AND CONNECTING-ROD CONSTRUCTION. ROBERT A. LUNDELL, New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Apr. 18, 1918, Serial No. 229,306. Patent No. 1,371,701, dated Mar. 15, 1921. Divided and this application filed Feb. 18, 1921. Serial No. 446,058. 6 Claims. (Cl. 121—120.)

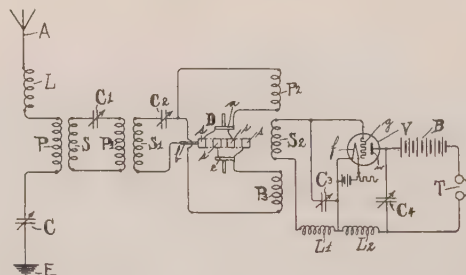
1. A piston and connecting rod construction for engines comprising a piston, a connecting rod pivotedly con-

nected to said piston, a portion of the rim of the piston being cut away at one side, to permit a relatively smaller angular adjustment between two piston rods, to



afford provision for assembling a plurality of pistons as a unit in an engine after the connecting rods have been connected to the same crank pin.

1,423,345. SIGNALING METHOD AND APPARATUS. DAVID G. McCAA, Palo Alto, Calif., assignor of one-half to Cornelius D. Ehret, Philadelphia, Pa. Filed May 20, 1921. Serial No. 471,142. 24 Claims. (Cl. 250—8.)

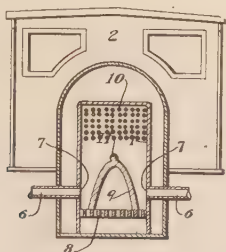


1. The method of receiving high frequency oscillations, which consists in locally generating oscillations of frequency equal to the frequency of the received oscillations, periodically changing the co-action of the received and locally produced oscillations, and subjecting a translating instrument to the resultant of the received and locally produced oscillations.

1,423,346. FIRE BOX. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Jan. 3, 1918, Serial No. 210,146. Patent No. 1,292,399. Divided and this application filed Jan. 17, 1919. Serial No. 271,715. 1 Claim. (Cl. 110—28.)

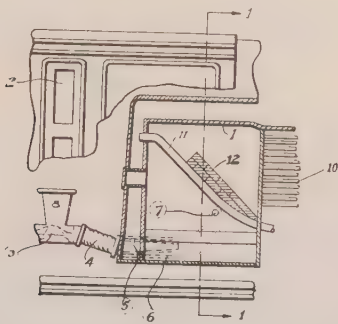
A fire-box for locomotives comprising a casing having end and side walls and grate bars forming the bottom of the fire-box, in combination with a tube sheet forming one end wall of the fire-box, horizontal fire tubes extending from said tube sheet, an elongated deflector having upwardly-converging side walls in the fire-box and positioned above the grate bars, the top surface of said deflector being below the said fire tubes, fuel discharge nozzles extending through opposite sides of the fire box and

below the top of said deflector for delivering the charge of powdered fuel against the sides of said deflector, and



means for creating a draft through the fire box whereby the products of combustion are drawn from the fire-box and through the fire tubes.

1,423,347. FIRE BOX. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Jan. 3, 1918, Serial No. 210,146. Patent No. 1,292,399, dated Jan. 21, 1919. Divided and this application filed Jan. 17, 1919. Serial No. 271,716. 1 Claim. (Cl. 110—28.)

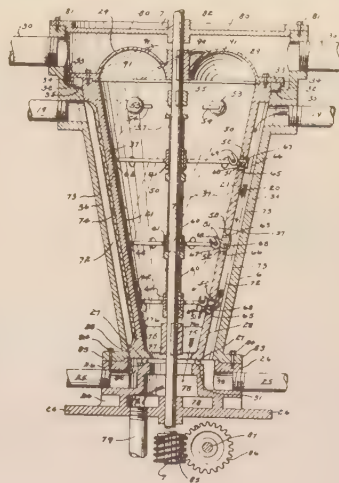


In a boiler, the combination of a fire-box having end and side walls, substantially horizontal fire tubes leading from one of the end walls, water tubes within the fire-box and extending diagonally from one end wall at a point below said fire tubes upwardly to the other end wall, at a point near its top, refractory material overlying and supported by said water tubes forming a partition dividing the fire box into two chambers communicating at the end of partition remote from the fire tubes only, and fuel discharging nozzles leading into the side walls of the fire-box and in substantial alinement to discharge the fuel delivered there-through toward each other, the point of ignition being at the center of the fire-box below said partition, means for creating a draft through the fire-box whereby the products of combustion traverse the chambers and exit through the said fire tubes.

1,423,348. FAN. FREDERICK L. MCGAHAN, Los Angeles, Calif.; Viola K. Walker administratrix of said Frederick L. McGahan, deceased, assignor to The Purposed Mind Development Security Association of the World, a Trust Company. Original application filed Oct. 14, 1918, Serial No. 258,127. Divided and this application filed Dec. 8, 1919. Serial No. 343,354. 2 Claims. (Cl. 230—11.)

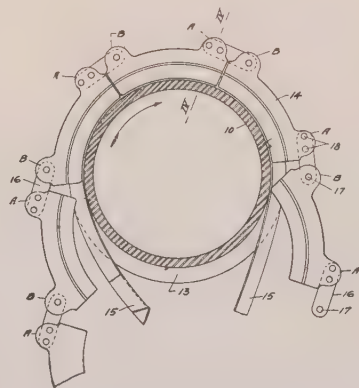
1. A fan of the character described, comprising a plurality of blades radiating from the hub, said blades each

forming a member having a concaved and a convexed surface terminating in straight edges radiating from the hub and in the arc of a circle, the concaved surface substan-



tially facing in the direction of the axis of the fan, said blades being positioned relative to the hub to further provide an entrance into said concaved surface, which entrance faces in the direction of rotation of the fan.

1,423,349. MOLDING MACHINE. ROBERT MCCLENATHEN, Akron, Ohio, assignor to Kelly-Springfield Tire Company, Akron, Ohio, a Corporation of New Jersey. Filed Nov. 9, 1921. Serial No. 513,986. 9 Claims. (Cl. 18—6.)

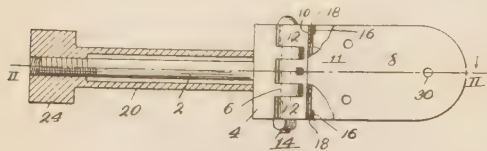


1. A machine of the character described comprising a plurality of spaced apart cylindrical drums of identical diameter having counterpart circumferential grooves in alined relation; associated driving means for revolving all drums at the same speed; and an articulated circulating pressure member in each groove of each drum, said pressure member being adapted to register with said grooves and to be circumferentially advanced simultaneously over the drums.

1,423,350. ADJUSTABLE HINGE. WILLIAM B. McDONALD, Lawrence, Kans. Filed July 5, 1921. Serial No. 482,362. 2 Claims. (Cl. 16—128.)

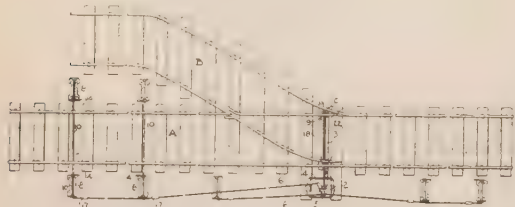
1. A hinge consisting of a threaded shank, a transverse head at one end of said shank provided with knuckles, a plate adapted to be secured to a door or gate and provided at one end with knuckles adapted to inter-

lap with the knuckles on said shank, means for pivotally connecting the knuckles on the head and said plate, and a holder embodying internally threaded means into



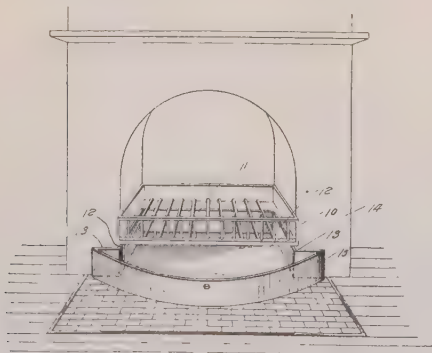
which the threaded shank may be screwed and secured against accidental longitudinal movement in either direction.

1,423,351. AUTOMATIC RAILROAD-SWITCH THROW AND LOCK. FRANK H. MARTIN, Carterville, Ill. Filed July 9, 1921. Serial No. 483,544. 11 Claims. (Cl. 246—340.)



1. Operating means for railroad switch points, comprising a rockable switch stand connected to the points, a tripvee mounted to oscillate on a horizontal axis and connected to the stand, and vehicle-carried means adapted to travel in a path to enter and actuate the tripvees, that portion of the tripvees entered by the vehicle-carried means comprising divergent arms movable independently of each other in the same vertical plane.

1,423,352. ASH PAN. CHARLES F. MILHOLEN, Kansas, N. C. Filed Nov. 10, 1920. Serial No. 423,080. 1 Claim. (Cl. 126—243.)



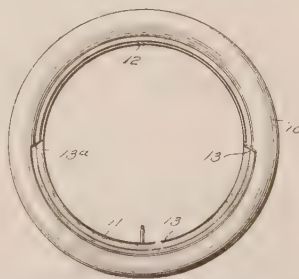
An ash pan for fireplaces having a body portion for disposition below a grate, lateral offsets on and extending a considerable distance from said portion for contact with the jambs of the fireplace to limit insertion of the pan, a front wall extending from the outer extremity of one of said offsets to the other offset, said front wall being deflected forwardly and the pan being unobstructed above its bottom forwardly of a line passing through said offsets so as to catch and retain ashes and sparks falling off the grate beyond the front margin thereof.

1,423,353. SANITARY BELT. DORA MORNER, Stevens Point, Wis. Filed Oct. 31, 1921. Serial No. 511,551. 2 Claims. (Cl. 24—193.)



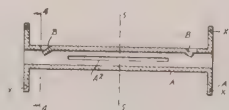
1. In a device of the character described, a clamp comprising a substantially rectangular loop, one side of the rectangle being formed by the ends of the loop extending toward each other and a sleeve secured to one of the ends and separably receiving the other end, and a second loop of approximately the same shape but slightly smaller than the first loop and having eyes formed in its ends and pivotally receiving the ends of the first loop.

1,423,354. AUTOMOBILE WHEEL RIM. GEORGE THOMAS NICHOLS, Gainesville, Tex., assignor of one-tenth to John P. Walling, Gainesville, Tex. Filed Apr. 7, 1920. Serial No. 371,941. 10 Claims. (Cl. 301—35.)



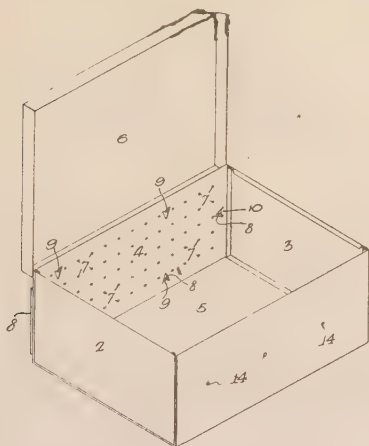
1. A wheel rim comprising a ring having a section thereof of less thickness for a portion of its circumference and transversely of the rim than the remaining section, apertures provided at spaced intervals in said section, an arcuate segment complementary to the ring and fitting over the thin section thereof, the combined thickness of the segment and of the section where fitted together being equal to the thickness of the remaining section, said segment being provided with means for engaging with said apertures whereby the segment is held in place upon the ring.

1,423,355. PHOTOGRAPHIC-ROLL-FILM SPOOL. MAGNUS NIÉLL, Stockholm, Sweden. Filed Sept. 5, 1919. Serial No. 321,932. 3 Claims. (Cl. 242—71.)



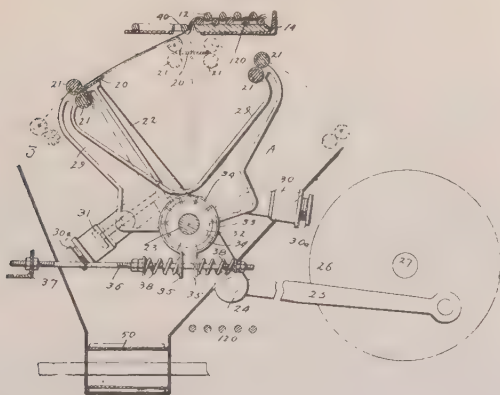
2. A spool of the character described comprising a hollow shaft made in one piece with open ends and of a generally cylindrical exterior and interior with heads extending in planes at substantially right angles to the axis of the tubular shaft and provided with grooves in their outer faces near the margins thereof, said shaft and heads being made in one piece and the shaft being in one piece of sheet metal throughout, said hollow shaft having near both ends thereof portions of the sheet metal thereof pressed inwardly into the space embraced by the shaft and adapted to form projections to cooperate with similar formations on a key insertable into the open ends of the shaft for forming an interlock between key and spool.

1,423,356. HUMIDOR. FREDERIC OAKFORD, Philadelphia, Pa., assignor of one-half to Arthur W. Jones, Germantown, Philadelphia, Pa. Filed Nov. 5, 1920. Serial No. 421,853. 1 Claim. (Cl. 131—30.)



The combination of a container having a perforated face and struck up tongues constituting a guideway on said face; a relatively thin holder slidably mounted in the guideway provided by said tongues and consisting of two spaced thicknesses of sheet metal; with a sheet of water absorbent material mounted within the holder, the outer face of the latter being imperforate and the face adjacent the perforated side of the container having openings therein.

1,423,357. FIBROUS-PLANT-DECORTICATING MACHINE. FRANK O'NEILL, Jr., Philadelphia, Pa. Filed Nov. 28, 1917, Serial No. 204,329. Renewed Feb. 13, 1922. Serial No. 536,342. 21 Claims. (Cl. 19—12.)

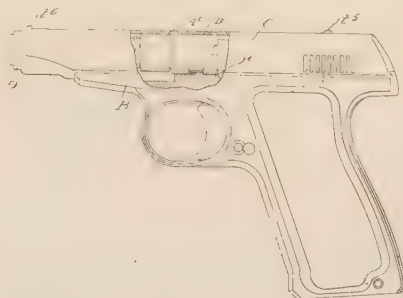


9. In a machine of the class described, the combination of plant suspending means, a decorticating mechanism situated beneath the same and comprising two sets of alternately acting plant engaging members, and means for imparting the movement of one member of a set to the other member in the same direction, whereby both simultaneously move in the same direction.

1,423,358. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Original application filed July 17, 1919, Serial No. 311,689. Divided and this application filed Apr. 2, 1920. Serial No. 370,830. 17 Claims. (Cl. 42—3.)

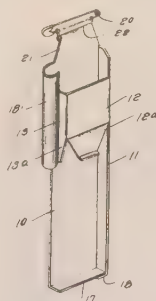
1. In a firearm in combination, a frame of the firearm provided with a shoulder, a main slide supported by

said frame and movable thereon and provided with a barrel-chamber, a barrel in said barrel-chamber rotatable for engaging the rear end of the barrel with said shoulder of the frame, means for supporting the barrel in said barrel chamber independently of said frame of the fire-



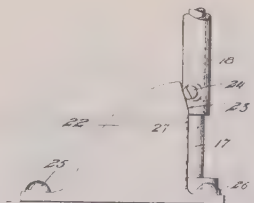
arm, and means on the barrel coacting with means on the frame of the firearm for drawing the barrel rearwardly to bring the rear end of the barrel into engagement with said shoulder of the frame by partial rotation of the barrel.

1,423,359. MECHANIC'S RULE AND PENCIL HOLDER. JAMES R. PLATT, Hartford, Ark. Filed Oct. 19, 1920. Serial No. 417,866. 3 Claims. (Cl. 24—13.)



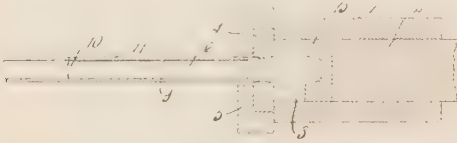
1. A mechanic's rule and pencil holder struck from a blank having a main fold upturned at one edge to form a flange, a transverse tongue extending from the free edge of the flange and provided with an extension lip extending toward the main fold, the portion of the opposite edge of the main fold beyond the plane of said lip being rolled to form a tubular pencil seat of which the open inner side is spanned by said extension lip.

1,423,360. ATTACHMENT FOR PHONOGRAPHS. CARLETON B. PRESTON, Providence, R. I. Filed Apr. 4, 1922. Serial No. 549,597. 3 Claims. (Cl. 274—9.)



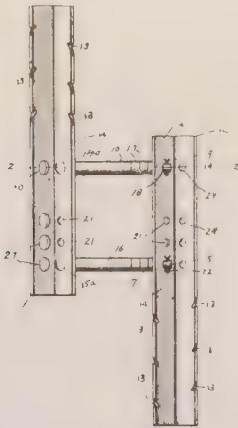
1. In combination with a phonograph including a horn mounted on slide with a vertical shaft, and a reproducer for cooperating with a record, a reproducer positioning attachment comprising a block having a face extending at an angle to the horizontal, and means cooperating with the horn for engaging with said face to rotate the horn to position the reproducer on the record.

1,423,361. DEVICE FOR PRODUCING EXTRUDED SHEET METAL. ALBERT F. ROCKWELL, Bristol, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y., a Corporation of New York. Filed June 25, 1919. Serial No. 306,546. 9 Claims. (Cl. 29—33.)



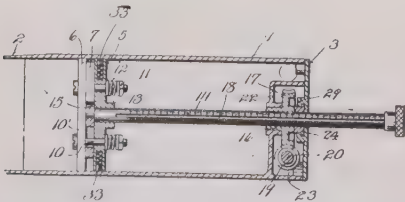
2. A device for reducing metal to sheet form comprising: a die member having a die opening of annular formation, means for forcing the metal to be reduced through said die opening, and means for cleaving the metal to produce a blank having the formation of a longitudinally-split tube.

1,423,362. CATTLE POKE. CHARLIE F. SCHNEIDER, Enid, Okla. Filed Jan. 7, 1921. Serial No. 435,641. 2 Claims. (Cl. 119—138.)



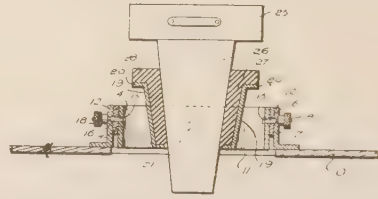
1. A cattle poke having bars, said bars having spaced and connected walls, connecting means extending through the innermost of said walls, and the outermost wall of one of said bars having openings therethrough, and said means being passable through said opening for insertion or removal.

1,423,363. HAIR-CUTTING APPLIANCE. SAMUEL SEVERSON, Valders, Wis. Filed May 18, 1920. Serial No. 382,236. 6 Claims. (Cl. 30—1.)



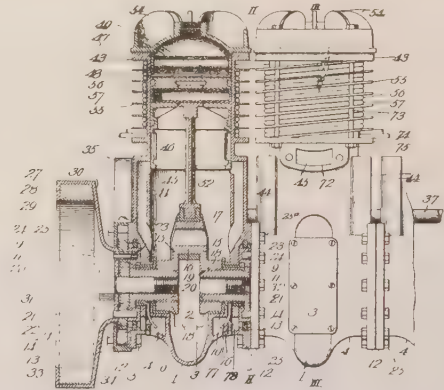
1. In an appliance of the class described, a casing, cutting mechanism therein, means for operating the cutting mechanism, and means simultaneously operable in synchronism with said last named means for withdrawing the cutting mechanism inwardly of the operating end of the casing.

1,423,364. AERIAL MOUNTING FOR CAMERAS. JOSEPH SHARPE, Hampton, Va. Filed Apr. 28, 1921. Serial No. 465,208. 3 Claims. (Cl. 95—12.5.)



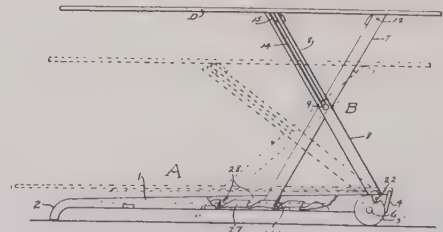
2. In an aerial mounting for cameras, an outer pivoted frame, an inner frame pivotally mounted upon the outer frame, and a shock absorbing tube held within the inner frame and adapted to receive the bellows of an aerial camera.

1,423,365. INTERNAL-COMBUSTION MULTIMOTOR. FRANK W. SMITH, Kansas City, Mo., assignor, by mesne assignments, to Unit Motor Company, Kansas City, Mo., organized under a declaration of trust. Filed July 2, 1919. Serial No. 308,168. 12 Claims. (Cl. 123—195.)



1. In an internal combustion engine, a crank case having a central chamber for the crank and two side chambers flanking the central chamber, for holding lubricant, the inner walls of the side chambers having hollow cylindrical portions axially of said central chamber, the inner ends of said cylindrical portions being enlarged and communicating with said central chamber, bushings fitting in and conforming to said cylindrical portions, and wicks within said side chambers and extending up through the said cylindrical portions and said bushings to conduct lubricant to the interior of the latter.

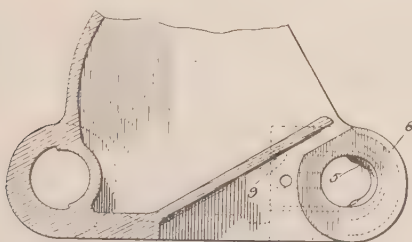
1,423,366. COMBINED IRONING BOARD, STEPLADDER, AND HOUSE TRUCK. HENRY C. SNOOK, Independence, Kans. Filed Sept. 21, 1920. Serial No. 411,779. 1 Claim. (Cl. 228—21.)



A combined ironing-board, step-ladder and truck, comprising a frame provided with handles and a pair of roll-

ers; a pair of bars, each provided with a series of notches, said bars being secured to the inner faces of the longitudinal members of said frame; a second frame pivotally connected to said first-named frame at points adjacent said rollers, said second frame comprising spaced longitudinal members each having a slot therein at its free end, a third frame pivotally secured to said second frame by a rod passing through said slots, said third frame having at its outer end a transverse bar adapted to seat in pairs of said notches, an ironing-board adapted to be mounted on said second and third frames in various adjusted positions thereof, and a bolt for detachably securing said ironing-board in place, said bolt also serving to hold the longitudinal members of said second and third frames in alinement when adjusted to form a step-ladder.

1,423,367. PIN STOP FOR DREDGE BUCKETS. MARK L. SUMMERS, Hammonton, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Aug. 6, 1921. Serial No. 490,241. 4 Claims. (Cl. 74—43.)

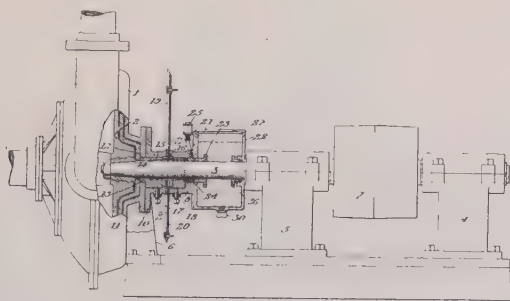


1. A dredge bucket having a pin opening and a lug-seat, a pin for said opening and having a lug adapted to said lug-seat, and means cast integral with the bucket to prevent endwise displacement of the pin and effective to confine the lug to its seat.

1,423,368. SOUND-BOX DIAPHRAGM. HERBERT L. TIFFT, Willimantic, Conn. Filed Mar. 31, 1921. Serial No. 457,506. 6 Claims. (Cl. 181—32.)

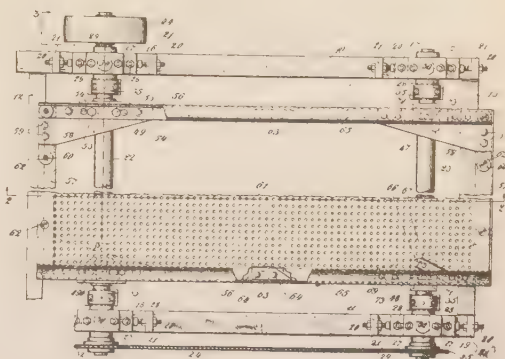
1. A diaphragm for the purpose indicated consisting of a fibrous base saturated with a solution of gutta percha and having an exterior metallic coating.

1,423,369. CENTRIFUGAL PUMP. WILLIAM FRANCIES TRENNARY, Atlanta, Ga. Filed Dec. 30, 1918. Serial No. 268,816. 2 Claims. (Cl. 286—9.)



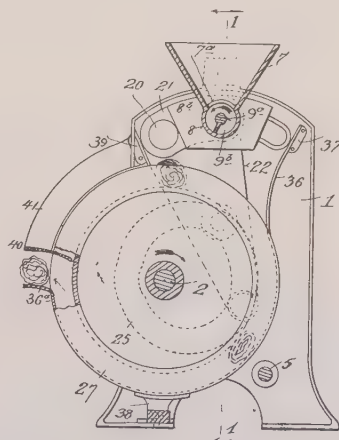
1. A shaft bearing, having a stuffing box, a divided bushing adapted to embrace the shaft, means to adjust the divided bushing to the shaft to compensate for wear on the shaft, means to supply liquid to the shaft within the bushing, and external circumferential grooves on the bushing members in communication with the liquid supply means to drain the liquid and solid matter from the bushing.

1,423,370. REVOLVING SHAKER SCREEN. JULIUS C. UHLARIK, Valhalla, N. Y., assignor to Robins Conveying Belt Co., a Corporation of New Jersey. Filed June 16, 1919, Serial No. 304,619. Renewed Dec. 7, 1921. Serial No. 520,762. 12 Claims. (Cl. 83—56.)



1. A screen frame, means to move it in a circular orbit, consisting of parallel shafts provided with eccentrics, adjustable counterbalance means at the eccentrics, a bearing for one of the eccentrics having freedom of motion longitudinally of the frame, and a screen plate mounted loosely upon the frame to cause the plate, due to its inertia, to travel in an orbit of its own, alternately lagging behind the orbit of the frame and jarring upon it when the orbits again coincide.

1,423,371. DOUGH-DIVIDING MACHINE. THOMAS S. VIEROW, Jersey City, N. J. Filed July 26, 1921. Serial No. 487,751. 18 Claims. (Cl. 107—15.)

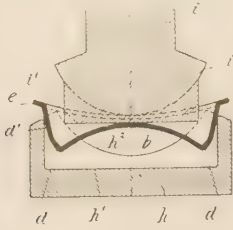


1. A dough dividing machine comprising a reciprocative and rotative plunger provided with means to feed dough, a receiver for the dough, and means to discharge dough from the receiver.

1,423,372. WATER-TUBE BOILER. KARL VÖRSMANN, Brunn, Austria. Filed July 5, 1917. Serial No. 178,724. 3 Claims. (Cl. 113—51.)

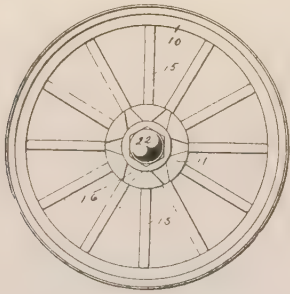
1. A process for the manufacture of headers for steam boilers, comprising shaping a blank between a first set of

dies to have an upwardly curved bottom and surrounding side and end walls provided with outstanding flanges, and



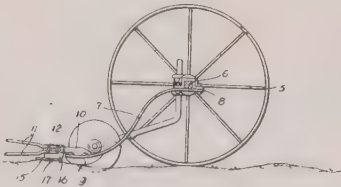
subsequently flattening the bottom and thereby drawing in the top portions of the end walls towards each other between another set of dies.

1,423,373. METAL WHEEL. JAMES H. WAGENHORST, Jackson, Mich. Filed Aug. 20, 1919. Serial No. 318,812. 4 Claims. (Cl. 301—58.)



1. A wheel comprising a hub; a sheet metal felly and sheet metal spokes connecting said felly and hub, the inner ends of said spokes being enlarged, the hub having flanges at its opposite ends provided with recesses adapted to receive the enlarged spoke end radially therein.

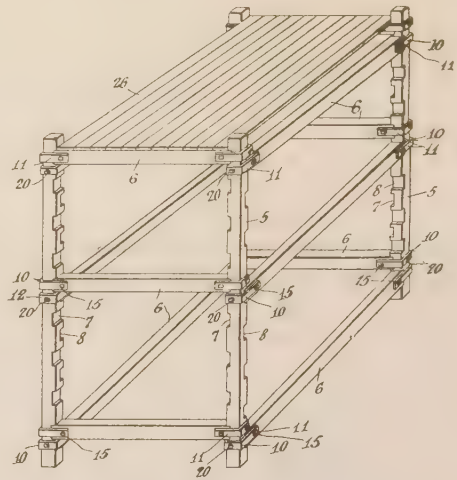
1,423,374. BEET TOPPER. SYLVESTER C. WARNER, McClure, Ohio. Filed Jan. 11, 1921. Serial No. 436,586. 8 Claims. (Cl. 55—107.)



1. A topping attachment for vegetable digging machines comprising a resilient arm rigidly attached to the frame of the machine and extending downwardly and rearwardly thereof, a ground-engaging shoe carried by said resilient arm, and a knife carried by said shoe, said knife being mounted to the rear thereof.

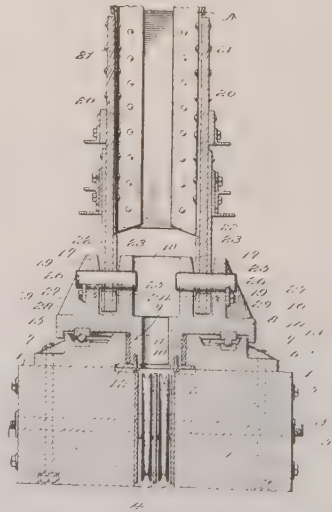
3. A top-cutting mechanism for vegetable digging machines, comprising a resilient arm attached to the frame of the machine and projecting downwardly and rearwardly therefrom, ground-engaging means carried by the rear end of said arm, a bracket carried by the rear end of said arm, a knife carried by the bracket, means for securing the knife to the bracket, and a plurality of top-directing fingers carried by the bracket, said top-directing fingers being secured to the bracket by the knife-securing means.

1,423,375. BUILDING CONSTRUCTION. FREDERICK WATT, Chicago, Ill., assignor of one-third to Thomas J. Pembor, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,160. 4 Claims. (Cl. 304—2.)



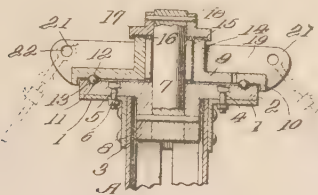
1. A building structure comprising a plurality of upright posts, each post having a series of corresponding transverse grooves in two adjacent sides thereof; a plurality of beams extending between the posts to form a self-supporting polygonal structure and having their ends seated in the grooves; and detachable screw clamps encompassing a post and the sides of a beam for securing an end of each beam in a groove of the corresponding post.

1,423,376. DERRICK. GEORGE F. WATTS, Boston, Mass. Filed July 13, 1921. Serial No. 484,458. 6 Claims. (Cl. 212—70.)



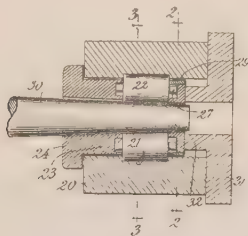
1. The combination of a foot-block consisting of a base plate and a mast step, anti-friction bearings interposed between the base plate and mast step, and a mast pivotally connected to the mast step and centrally located thereon, whereby the pressure exerted on the foot block by the mast regardless of its angle is equally distributed on the base plate by said anti-friction means.

- 1,423,377. MAST TOP. GEORGE F. WATTS, Boston, Mass.
Filed July 13, 1921. Serial No. 484,459. 4 Claims.
(Cl. 212—70.)



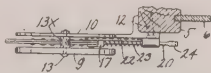
1. In a mast top, the combination with a derrick mast, a base plate mounted thereon and provided with a gudgeon pin, a spider plate mounted upon the base plate and surrounding the gudgeon pin, and anti-friction means interposed between the spider plate and gudgeon pin and between the spider plate and base plate.

- 1,423,378. METHOD AND APPARATUS FOR FINISHING CURVED SURFACES. HAROLD WESSON, Springfield, Mass. Filed Mar. 10, 1921. Serial No. 451,208. 6 Claims. (Cl. 29—90.)



1. The method of imparting, to an article of suitable rigid material, a finished surface of revolution of a very high degree of smoothness and extreme accuracy of dimensions, which consists in first machining said surface, by any appropriate means, to a very close approximation of the desired finished form and then subjecting the same to a treatment by rollers of relatively small curvature having hard polished surfaces, said rollers being forcibly pressed against said surface while being rolled along the same, the rolling and pressing being continued until said surface has been highly polished and compressed with precision to a predetermined dimension, and being discontinued when said dimension has been attained.

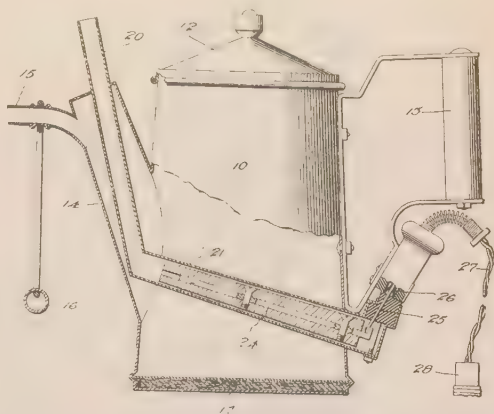
- 1,423,379. AUTOMOBILE DIRECTION SIGNAL. OSCAR M. WEST, St. Paul, Minn. Filed Aug. 29, 1921. Serial No. 496,500. 2 Claims. (Cl. 116—40.)



1. In a device of the class described, a vertically disposed outwardly projecting housing and means for securing same to a stationary part of a vehicle near the driver thereof, a foldable and horizontally extensible signal arm normally contained in the housing and means near the driver operatively connected with the signal arm to extend it out horizontally from the housing, said extensible signal arm being composed of cross bars pivotally connected at their crossings and pivoted together at their ends in the manner of lazy tongs, the outer members terminating in triangular points forming an arrow head when the arm is extended; the inner members of the arm forming beam levers mounted to tilt and slide in the housing, a

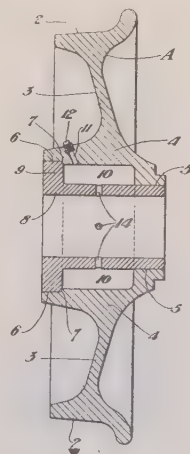
cross head slidable in the housing and pivoted to the inner ends of said beam lever, a horizontally disposed rod fixed in the cross head, a bearing on the housing for the rod to slide in, a compression coil spring encircling the rod between the bearing and the cross head and tending at all times to push the cross head and the rod outward and thereby hold the extensible arm normally in folded position and means for imparting endwise movement of the rod against the pressure of the spring, said means comprising a guided cable having one end connected to the rod and the other end connected to an operating lever mounted near the driver of the car.

- 1,423,380. ELECTRICALLY-HEATED APPARATUS. ROBERT F. WHERLAND, Stanley, N. Dak. Filed Dec. 13, 1920. Serial No. 430,225. 3 Claims. (Cl. 219—44.)



1. A device of the class described, comprising a receptacle, a duct extending transversely therethrough, a discharge spout, a tube extending through said spout and having connection with the aforesaid duct, and an electrically heated element within said duct.

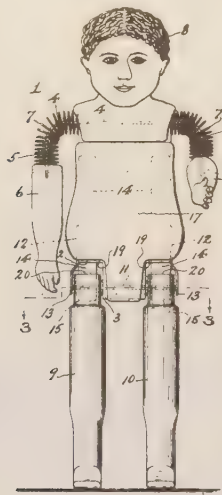
- 1,423,381. CAR WHEEL. THOMAS WALLY WILLIAMS, Pittsburgh, Pa. Filed May 12, 1922. Serial No. 560,420. 1 Claim. (Cl. 295—35.)



In a forged steel car wheel, a hub portion counterbored for the greater portion of its length and having a smaller bored aperture in the bottom wall of said counterbore, said counterbored portion of said hub having an enlarged annular portion at its open end forming a shoulder, and a bushing of a diameter that will fit snugly within said bored

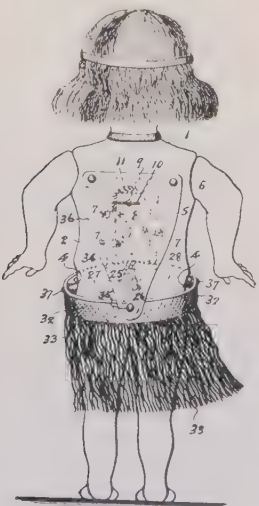
aperture fitted within said counterbore and having one end projecting into said bored aperture, an annular flange on the opposite end of said bushing adapted to snugly fit within the enlarged annular portion of said counterbore and abut said shoulder thereby forming a closed annular lubricant retaining recess, said bushing being provided with perforations to permit the passage of lubricant there-through.

1,423,382. WALKING DOLL. DAVID ZAIDEN, East Orange, N. J. Filed Dec. 14, 1920. Serial No. 430,675. 6 Claims. (Cl. 46-40.)



1. In a toy of the kind described, a body portion, leg portions pivotally connected with said body portion, and flat leaf springs attached to said body portion, the free ends of said springs respectively engaging the rear sides of said respective leg portions to hold the latter in normal longitudinal alinement with said body portion yet yieldable to rearward swinging movement.

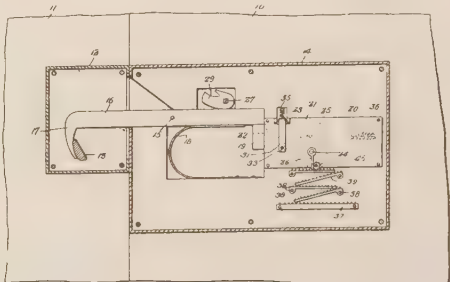
1,423,383. HULA DOLL. DAVID ZAIDEN, East Orange, N. J. Filed May 9, 1921. Serial No. 467,805. 5 Claims. (Cl. 46-40.)



1. In a doll of the kind described, a body having a chambered interior and provided in its lower trunk portion with

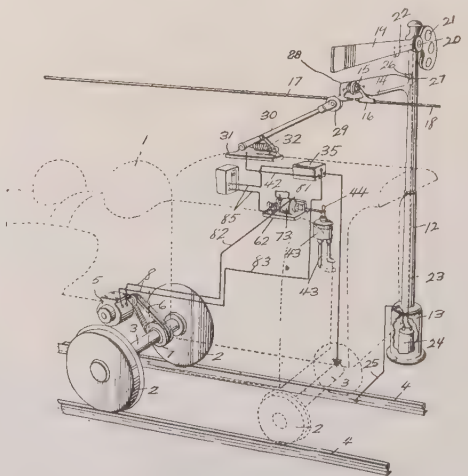
laterally opposite side openings, a spring motor mechanism supported within said chambered interior, means oscillated by said spring motor mechanism having portions extending oppositely through said side openings, and a skirt member attached to said latter means adapted to be rhythmically swayed from side to side by the operation thereof.

1,423,384. COMBINATION LOCK. CHARLES J. ANDERSON and WILLIAM H. VAN DYKE, Corning, N. Y. Filed Oct. 20, 1921. Serial No. 509,116. 8 Claims. (Cl. 70-18.)



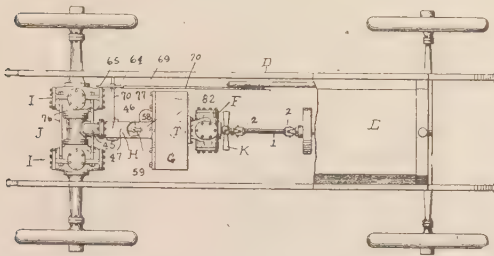
1. A combination lock including a movable bolt, means for actuating the bolt, a plurality of rack bars pivoted to swing at their alternate ends, and a shaft carrying a gear pinion consecutively engageable with said rack bars, said shaft operative to engage the bolt moving means when the pinion arrives at a predetermined position on the rack bars.

1,423,385. AUTOMATIC TRAIN-CONTROL DEVICE. JOHN P. ANGUS, Tonawanda, N. Y. Filed Mar. 20, 1919. Serial No. 283,792. 8 Claims. (Cl. 246-68.)



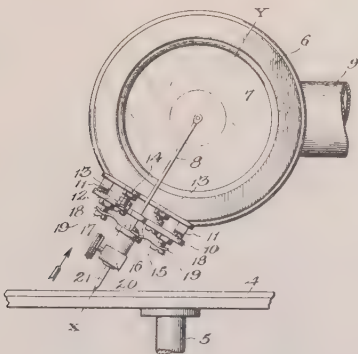
6. In a train control mechanism, the combination with the air brake lever and valve, of a frame joined with the air brake lever and including upper and lower racks, a gear shaft having a gear adapted to engage the upper rack, motor connections for rotating the gear to drive the frame forwardly, a guide on the frame for the gear shaft, a dielectric support on the frame having a current strip including upper and lower portions ending in insulated blocks, a contact arm adapted to engage the upper portions, a motor circuit including a source of energy and a pair of contacts, a switch arm adapted to engage the contacts to close the motor circuit, cam devices for elevating the frame to simultaneously cause the engagement of the lower rack with the gear and the lower strip portion with the contact and the end of the forward thrust of the frame, and a cam guide for the end of the gear shaft.

1,423,386. FLUID POWER-TRANSMISSION APPARATUS. JOSEPH H. BAIR, Philadelphia, Pa., assignor of eighteen-sixtieths to James O. David, Philadelphia, Pa., fifteen-sixtieths to Hervey S. Knight, Chicago, Ill., and ten-sixtieths to Lewis H. Taylor, Jr., Philadelphia, Pa. Filed July 1, 1916. Serial No. 107,211. 11 Claims. (Cl. 60—53.)



1. In a fluid driving or driven apparatus, the combination of a shaft, an eccentric mounted on said shaft, a piston reciprocated by said eccentric, a housing for said piston, means for varying the eccentricity of the eccentric mounted coaxially with the shaft; said shaft having a bore which receives the varying means, and a transverse sector face intersecting said bore; said eccentric being fitted to said bearing face and constructed with a toothed rack presented to the bore of the shaft; and said varying means including a pinion within the bore and meshing with said rack.

1,423,387. PHONOGRAPHIC SOUND BOX. LOUIS JOHN BERGDOLL, now by judicial change of name Louis John Bergson, Philadelphia, Pa. Filed Dec. 11, 1916. Serial No. 136,218. 3 Claims. (Cl. 274—35.)

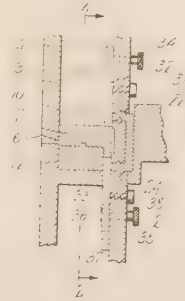


1. In combination with a sound-box having a diaphragm and a stylus-bar connected therewith, a pivotally-mounted member connected with said bar arranged to impart vibration thereto in a plane substantially perpendicular to said diaphragm in response to properties in a record pertaining to recorded sound, a holder for a record-engaging part pivotally mounted on said member arranged to vibrate only in a plane substantially parallel with said diaphragm in response to other record properties, and a spring counteracting movement of said holder in both directions.

1,423,388. LINE-SLUG-CASTING MACHINE. SUNKER AOQ. BISEY, New York, N. Y. Filed Sept. 4, 1920. Serial No. 408,298. 23 Claims. (Cl. 199—75.)

1. The process of producing a continuous typographical line slug of indefinite length with a mold of definite and less length which comprises repeatedly casting units in the

mold in contact with preceding units and against successive matrices of a composed line of matrices, ejecting the



units from the mold as they are cast and automatically advancing the composed line of matrices through the engagement of the cast sections therewith.

1,423,389. PAINT VEHICLE. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Apr. 16, 1921. Serial No. 461,961. 6 Claims. (Cl. 134—56.)

6. A paint-vehicle carrying coconut oil; tung oil; and a mineral oil.

1,423,390. PAINT COMPOSITION. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Oct. 5, 1921. Serial No. 505,624. 10 Claims. (Cl. 134—39.)

10. A paint-composition, comprising a fatty oil; a pigment; coconut oil; tung oil; and a mineral oil.

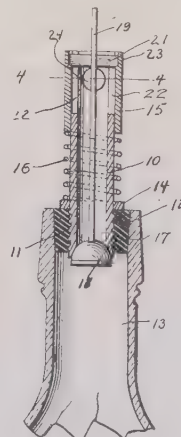
1,423,391. PIGMENT COMPOSITION FOR PAINTS. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Oct. 5, 1921. Serial No. 505,625. 8 Claims. (Cl. 134—58.)

8. A mixture, in paste form, of coconut oil; tung oil; and an anhydrous pigment.

1,423,392. OIL. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Oct. 5, 1921. Serial No. 505,626. 2 Claims. (Cl. 134—56.)

2. A mixture of tung oil and coconut oil.

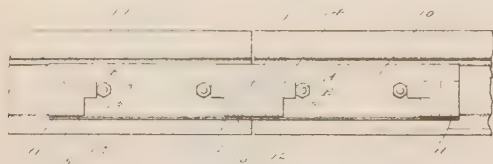
1,423,393. BATTERY FILLER. ARVEL A. BOSTON, New Martinsville, W. Va. Filed Sept. 8, 1919. Serial No. 322,255. 1 Claim. (Cl. 215—74.)



In combination with a container having a discharge mouth and a stopper therefor having a threaded aperture,

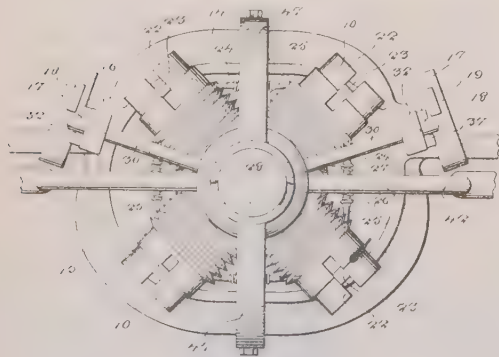
of a casing having escape ports in its outer end its inner end threaded and provided with an annular flange surrounding said casing adjacent the threaded portion, a curved seat formed within the threaded end, a semi-spherical valve normally engaging the seat, a stem oblong shape in cross section carried by said valve and passing through and beyond the outer end of said casing, a transversely disposed pin secured through the stem adjacent its outer end and adapted to reciprocate within oppositely disposed longitudinal slots formed in the outer end of the casing, a sleeve surrounding the casing and normally positioned over the escape ports, said sleeve being provided with grooves disposed upon diametrically opposite sides of its interior, and is adapted to receive the ends of the pin, and a coil spring engaging the sleeve and the annular flange for the purpose specified.

1,423,394. ANGLE BAR AND NUT LOCK. JACK JAMES BOWMAN, Portland, Oreg. Filed Nov. 29, 1921. Serial No. 518,605. 3 Claims. (Cl. 238—262.)



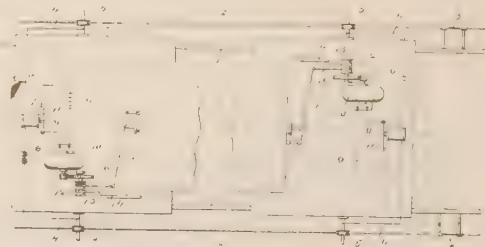
1. An angle bar formed at one end with an inclined flange and formed with a lug arranged in spaced relation to the flange, and a plate disposed against the bar and having an extension fitting between the flange and the lug, one end of the plate being engageable against a nut carried by a bolt passing through the bar.

1,423,395. MOTOR. EDWARD W. BROWN, Sparks, Okla., assignor, by direct and mesne assignments, of nine-tenths to The Brown Motor Company, Sparks, Okla., a Corporation of Oklahoma, and one-tenth to Rufus P. Roope, Chandler, Okla. Filed May 3, 1921. Serial No. 466,473. 8 Claims. (Cl. 123—44.)



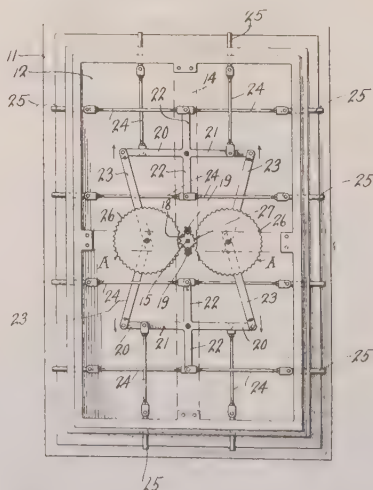
1. A motor comprising a track of irregular formation, a shaft arranged centrally of said track, a hub on said shaft, cylinders radiating from said hub, a piston sliding in each cylinder and continuously contacting said track, each cylinder having a port at each side thereof, and said ports being simultaneously utilized as inlet or outlets for the cylinder, and stationary valves mounted on the shaft and arranged in face to face contact with the adjacent end of the hub for controlling said ports.

1,423,396. AUTOMATIC TRAIN-STOPPING MEANS. GEORGE CHROMY, Stewart, Minn.; Joseph Chromy, administrator of said George Chromy, deceased. Filed Aug. 19, 1918. Serial No. 250,567. 1 Claim. (Cl. 246—66.)



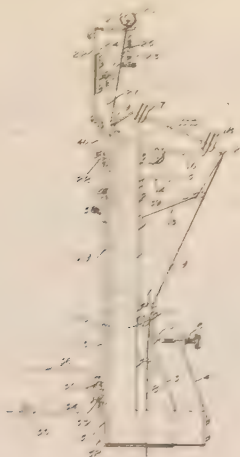
In the means described for stopping a train, the combination of a railway track, electric conductors arranged alongside the track rails, and a train equipment comprising a normally interrupted circuit in which the said conductors and a circuit closer are interposed; said circuit being adapted to be completed when a similarly equipped train running in an opposite direction is in dangerous proximity on the track, a source of electric energy and an electric motor arranged in a normally interrupted circuit including said circuit closer, whereby said motor circuit will be completed by the circuit closer on the closing of the first-named circuit, and means operable by the electric motor for manipulating an engineer's valve and a throttle lever to stop the train, and including a single winding shaft and cables directly connecting said shaft with the engineer's valve and the throttle lever.

1,423,397. LOCK. WILLIAM O. COLEMAN, Indianapolis, Ind. Filed July 9, 1921. Serial No. 483,582. 4 Claims. (Cl. 70—53.)



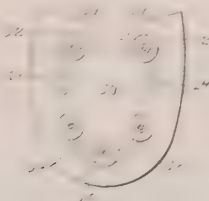
1. A combination lock mechanism including a plurality of locking bolts connected in groups, each group being movable independently of the other groups, spaced pairs of gears, a connection between each gear and one group of said bolts, a controlling element mounted for both sliding and rotary movements, and a pinion carried by said element and adapted to mesh with each gear, whereby said groups of bolts are singly controlled.

1,423,398. STOP MOTION. EDWARD FRANCIS CONNELL and JOHN FRANCIS CONNELL, Florence, Mass. Filed Jan. 4, 1921. Serial No. 434,977. 4 Claims. (Cl. 68-7.)



1. In an electrically operated stop motion, the combination of a standard, a contact leaf spring carried by the standard, said spring being secured at one end and adapted to be flexed by the pressure of a thread exerted on the free end thereof, a member also carried by the standard and arranged adjacent the spring, the spring and member extending in the same direction approximately parallel with each other, a contact screw carried by the member and adapted to engage the spring at a point intermediate of its ends when said spring is flexed, and an electric circuit connected with the spring and member.

1,423,399. RUBBER HEEL. ALIX COSTANTINO, Providence, R. I. Filed Feb. 18, 1921. Serial No. 446,100. 1 Claim. (Cl. 36-35.)

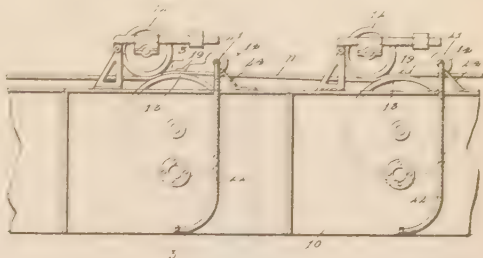


A rubber heel, having a plurality of spring fastening means for securing the rubber heel under spring tension to the heel of a shoe, boot or the like, said spring fastening means consisting of L shaped spring fastening members embedded in and adjacent the corners of the rubber heel and having a nail hole, curved spring arms and slots in the spring arms through which the rubber unites, and a U shaped spring fastening member embedded in and adjacent the rear end of the rubber heel and having a nail hole, curved spring arms and slots in the spring arms through which the rubber unites, all for the purpose as described.

1,423,400. ATTACHMENT FOR PAPER-MAKING MACHINES. CHRISTOPHER E. CRAMER, Hackensack, N. J. Filed Jan. 22, 1919. Serial No. 272,495. 1 Claim. (Cl. 92-49.)

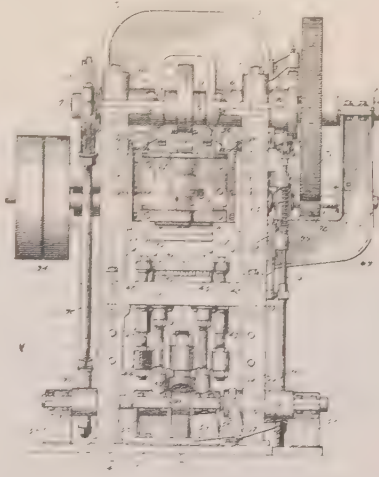
A suction slice comprising a substantially cylindrical body portion having a relatively narrow opening extend-

ing throughout its length, a tapered entrance chamber formed of side walls and top and bottom walls, the said entrance chamber being disposed tangentially with respect to the cylindrical body member and communicating with



the latter at its larger end and a forwardly projecting scraper apron formed by an extension of the lower wall of the entrance chamber and extending through the restricted mouth of said entrance chamber.

1,423,401. POWER PRESS FOR TILE, MOSAICS, AND THE LIKE. DAVID CROSSLEY, Trenton, N. J. Filed July 29, 1920. Serial No. 399,841. 20 Claims. (Cl. 25-56.)



1. A power press of the class described including in combination a forming device composed of a series of stationary members, a die case surrounding said members, means for raising said die case, said means including a clutch and counterbalanced treadle, means including a shaft and plunger for compressing the material to form the tile and means for lowering said die case for ejecting the compressed material, said last mentioned means being operated from the said shaft independently of the said raising means.

1,423,402. PROTECTOR. MARY G. DARLING, Washington, D. C. Filed Apr. 13, 1922. Serial No. 554,559. 1 Claim. (Cl. 24-155.)

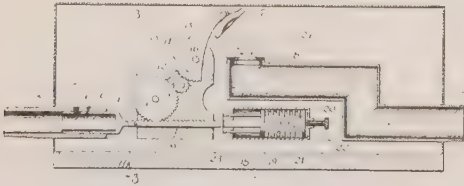
As a new article of manufacture, comprising a single piece of spring material bent upon itself to form a pin point receiving body portion and having its lower end closed, upwardly reaching spring clip portions extend-

ing from the closed end; said upwardly reaching portions being crimped at equidistant points throughout their



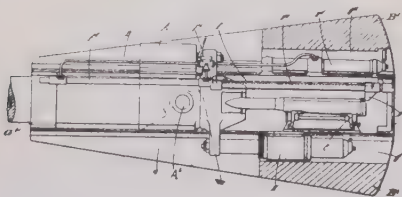
lengths to form gripping surfaces, and a rolled edge formed at the upper end of the portions; the material of the article being initially magnetized.

1,423,403. PRESSURE-CONTROLLED CUT-OFF. MELVIN L. DAVIS and GLEN W. COOK, Enid, Okla., assignors of one-third to Herbert H. Champlin, Enid, Okla. Filed Feb. 6, 1920. Serial No. 356,776. 13 Claims. (Cl. 67—115.)



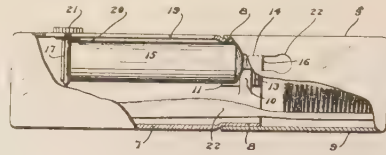
1. A cut-off, comprising a ported fluid inlet pipe, with a ported primary valve in normal registration therewith; tension-operated means opposing the fluid pressure against said valve but normally neutralized thereby, a fluid outlet pipe, and means operatively associated with a part of the primary valve, including a main valve for closing the outlet pipe by the influence of said tension means on the primary valve when the fluid pressure reaches a predetermined low point.

1,423,404. HIGH-ANGLE ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Oct. 26, 1921. Serial No. 510,655. 3 Claims. (Cl. 89—37.)



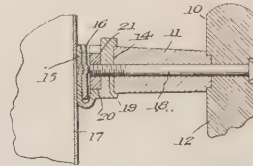
1. In high angle ordnance, the combination with the gun cradle, of two members extending rearwardly from said cradle, one member being arranged above and the other below the axis of the gun cradle and each of said members being weighted at its rear part.

1,423,405. COMBINATION TOOTHBRUSH AND DENTIFRICE HOLDER. LOUIS DAYEH, Philadelphia, Pa. Filed Feb. 14, 1922. Serial No. 536,599. 2 Claims. (Cl. 132—84.)



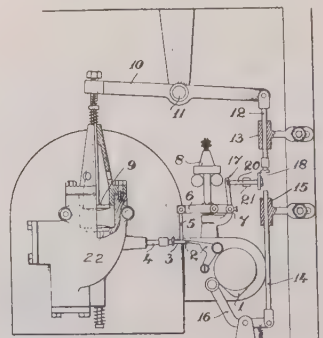
2. A tooth paste holder comprising a substantially rectangular casing having a reduced neck portion, a closure for said neck portion having an inwardly turned tongue projecting thereinto, a slide fitting in a loop in the rectangular casing and having an angular portion provided, and a locking clasp pivoted on the said angular portion for gripping the neck of the tube of tooth paste.

1,423,406. DETACHABLE HANDLE. BERT N. DONLEY, Muscatine, Iowa. Filed July 9, 1921. Serial No. 483,636. 2 Claims. (Cl. 16—114.)



1. The combination with a receptacle, of a handle, an engaging member carried by the handle, said member being provided with a socket to receive the handle, a tongue included in the engaging member, a screw carried by the handle and extending through said member, a seat provided in the member for the reception of a nut, to engage the bolt and hold the engaging member secured to the handle and a loop carried by the receptacle for engagement by the tongue.

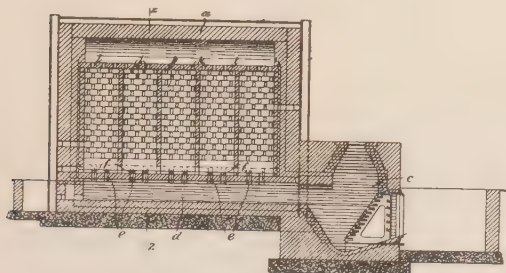
1,423,407. INTERNAL-COMBUSTION ENGINE. PERCY DOUGALL, Kidderminster, England. Filed Aug. 27, 1920. Serial No. 406,267. 2 Claims. (Cl. 123—112.)



1. In an internal combustion engine, the combination with the cylinder, of separate air and gas intake valves, a governor controlling the gas valve so as to cause the latter to remain closed at excessive speed, an air-release valve in the cylinder, a cam for operating said air-release valve, and a displaceable intermediate member adapted to complete the operative connection between the cam and air-release valve, said displaceable member

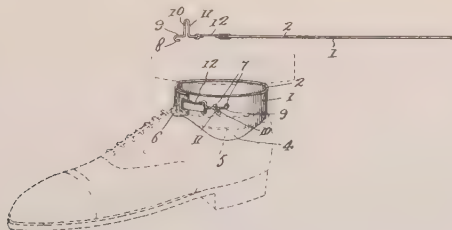
being connected to the governor so as automatically to break the connection between the cam and air valve when the gas valve is operative and to establish the said connection when the gas valve is inoperative.

1,423,408. GAS-FIRED POTTERY KILN. ARTHUR McDUGALL DUCKHAM, London, England. Filed Dec. 29, 1921. Serial No. 525,723. 7 Claims. (Cl. 25—145.)



1. A gas fired rectangular kiln for burning argillaceous ware, a gas bag therein constructed independently of the brickwork of the kiln proper, said gas bag dividing the kiln into a plurality of compartments, said bag having constricted apertures in the sides and top whereby heating gases escaping from the bag are evenly distributed and traverse the ware contained in the kiln between the bag and the walls of the kiln, the bulk of the gas passing through the ware in a horizontal direction.

1,423,409. HOSE PROTECTOR. VICTOR H. FAIRLESS, Trenton, Tenn. Filed May 4, 1921. Serial No. 466,797. 1 Claim. (Cl. 36—70.)

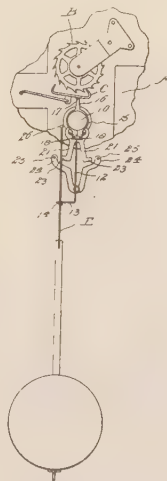


A hose protector, comprising a flat flexible band adapted to be placed about the ankle above a shoe top and adapted to overlap at its ends for fitting ankles of different thicknesses, said band having spaced depending lugs adapted to lie at the sides of the ankle and project into the shoe top and having a depending tab near one end for engagement beneath the tongue of the shoe, a flat tape carried on one end of the band and adapted to lie flat across the overlapping ends of the band to hold the same together, and a hook on the free end of the tape, said band having a longitudinal row of openings near its other end for selectively receiving the hook therein, whereby the hook may be adjustably secured to said other end of the band for closing the same in different sizes and at all times providing a substantially flat outer surface for the band, substantially as described.

1,423,410. CLOCK ESCAPEMENT. WILLIAM J. FAWVER, Patesville, Ky. Filed Dec. 31, 1921. Serial No. 526,312. 2 Claims. (Cl. 58—134.)

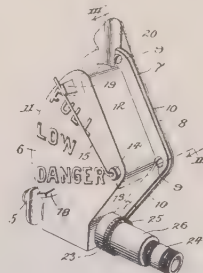
1. In combination with a pendulum, an escapement wheel and a verge associated with the latter, a clutch mechanism between the pendulum rod and the verge com-

prising a drum, a split ring frictionally engaging about the drum and connected with the verge, a pair of levers connected with the split ring at opposite sides of the split therein and having their inner edges formed with nor-



mally engaging projections, the lower ends of said levers being formed with outward projections, a pair of banking pins mounted upon the clock frame and carrying studs engageable by said levers, said pendulum rod being associated with the verge and verge wire.

1,423,411. LIQUID-LEVEL INDICATOR. STANLEY W. FINCH, Washington, D. C. Filed Dec. 31, 1921. Serial No. 526,241. 3 Claims. (Cl. 73—82.)

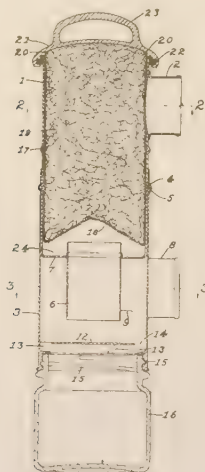


1. In combination with an oil reservoir of an internal combustion engine; a vented chamber in communication with the lower portion thereof; a wire bent to substantially U-form, the short member which connects the arms thereof being journaled in the casing at one side thereof; a float in the chamber carried by the inner arm of said U-shaped member; and stops located upon the face of the casing adapted to coact with the other arm of the U-shaped member and to thereby prevent the float from contacting the walls of the chamber.

1,423,412. AIR CLEANER. HERMAN H. GARNER, Pomona, Calif. Filed Sept. 20, 1918. Serial No. 254,923. 9 Claims. (Cl. 183—67.)

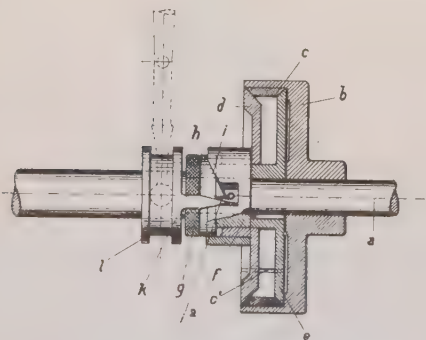
1. A cleaner for catching and holding the dust carried in the air used in an internal combustion engine comprising a casing; an inlet through which air is taken into

said casing, said inlet being so formed as to give the air as it enters the casing a rapidly whirling movement; an outlet through which said air is taken from said cas-



ing; and a body of oil saturated fibrous material in said casing between said inlet and outlet, said fibrous material having a recess formed in the bottom thereof and extending upwardly into the body of said material.

1,423,413. FRICTION CLUTCH. JULES HENRI GIAUQUE and CHARLES HAESLER, Le Locle, Switzerland. Filed June 14, 1920. Serial No. 388,873. 4 Claims. (Cl. 192-78.)



2. A friction clutch comprising a shaft, a drum rotatable thereon, a pair of discs, a friction element adapted to be operated in the relative movement of the discs to engage the drum, one of said discs being mounted on the shaft against rotation, a pair of rings, one ring being carried by each disc, means for adjusting and preventing axial movement in one direction of the ring on the first mentioned disc, the rings being formed to move axially in relative rotation and a separate means for producing relative rotation of the rings.

1,423,414. SAFETY RAZOR. OSCAR L. GLASER, Oak Park, Ill., assignor of one-half to John F. Blything, Oak Park, Ill. Filed July 10, 1919. Serial No. 309,880. 2 Claims. (Cl. 30-12.)



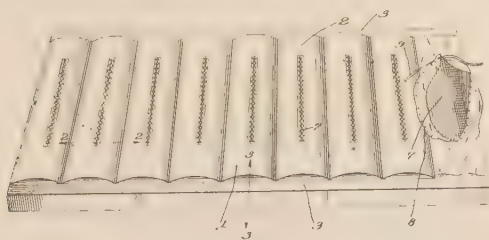
1. An attachment for a safety razor which has a relatively rigid blade holder and a relatively rigid handle, comprising a substantially U shaped spring member one leg of which is attachable against the blade holder to carry the same and the other leg of which is attachable against the end of the handle.

1,423,415. HOLDER. MATTHEW GLASS, Philadelphia, Pa. Filed Oct. 8, 1921. Serial No. 506,425. 2 Claims. (Cl. 15-14.)



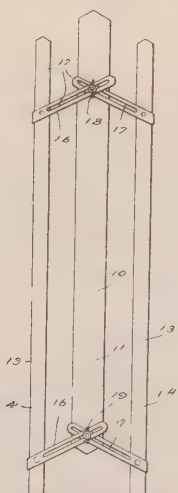
1. A device of the class described comprising a stationary jaw provided with spaced guide eyes and a shank disposed in a plane at right angles to said jaw and provided with a guide loop, a handle extending from said shank, a movable jaw parallel to said stationary jaw, parallel arms extending at right angles from said movable jaw and extending through the guide eyes of said stationary jaw, a shank connected to said parallel arms disposed in a plane parallel with said arms and extending through the guide loop of the first mentioned shank, and a handle extending from the last mentioned shank and disposed in a plane parallel to the handle aforesaid.

- 1,423,416. MATTRESS. ARTHUR E. GOMES, Peoria, Ill.
Filed Oct. 15, 1921. Serial No. 507,977. 3 Claims.
(Cl. 5—13.)



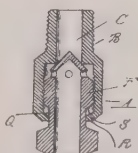
1. As a new article of manufacture, a mattress composed of an outer casing divided into a plurality of transverse sections and a pair of longitudinal sections along its edges, and individual fillers inserted in each of said sections.

- 1,423,417. DISPLAY RACK. JOHN F. GORMAN, Spokane, Wash. Filed Nov. 14, 1921. Serial No. 514,960. 2 Claims. (Cl. 211—14.)



1. A display rack comprising an inner section, outer sections located upon opposite sides of the inner section, each of said sections including vertically disposed end members and horizontally disposed bars connecting the end members and relatively slidable means connecting the said end members of each section, whereby the sections may be spaced apart and the inner section elevated, or the said sections arranged in contact and the inner section lowered.

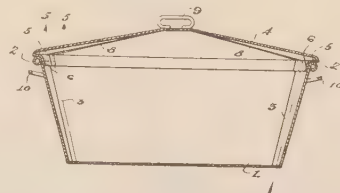
- 1,423,418. DRAIN PLUG. WILLIAM GRIKSCHKEIT, Detroit, Mich., assignor of one-half to Thomas B. Mother-sill, Windsor, Ontario, Canada. Filed Oct. 27, 1919. Serial No. 333,708. 4 Claims. (Cl. 251—8.)



3. A drain plug comprising two members, one having an axial passage therethrough with an externally threaded nipple at one end thereof and a counterbore at the opposite end internally threaded, forming an annular shoulder

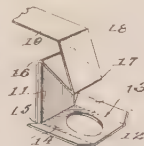
or valve seat at the inner end of said counterbore, the other member having a portion externally threaded to engage said threaded counterbore, being provided with an imperforate portion at its inner end for engaging said valve seat and having an axial passage from its outer end to said imperforate portion with a right angled port communicating with said counterbore and hexagonal surfaces upon each of said members for adjusting them.

- 1,423,419. BASKET. CHARLES HALASKA, Milwaukee, Wis. Filed Jan. 15, 1921. Serial No. 437,470. 1 Claim. (Cl. 220—72.)



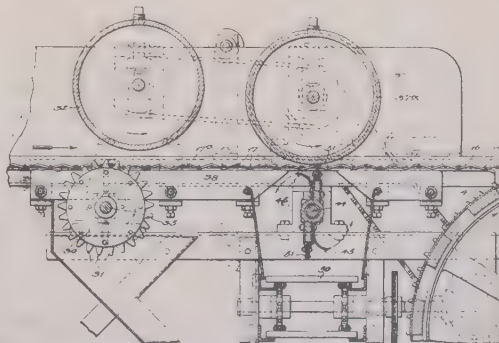
As a new article of manufacture, an oval basket constructed of sheet metal and having outstruck reinforcing ribs at each end equidistant of the center and extending through the full height of the basket, a cover and outstruck ribs radiating from the axis of said cover and adapted to register with the ribs on said basket.

- 1,423,420. PLATE ENVELOPE. ALFRED P. HANTSCH, New Brunswick, N. J. Filed June 4, 1920. Serial No. 386,434. 4 Claims. (Cl. 95—66.)



1. A plate carrying member which comprises an apertured portion, a portion to back a plate, a portion adapted to be bent upon itself to cover the face of a plate, a manipulative tab, and portions at the margins of said apertured portions and adapted to fold about a plate so as to hold the plate and backing portion and the face-covering portions in intimate association.

- 1,423,421. MACHINE FOR SKINNING AND CORING TOMATOES. HIRAM R. HARDING, Baltimore, Md., assignor to The Harding Peeling Machine Company, Inc., Baltimore, Md., a Corporation of Maryland. Filed May 10, 1921. Serial No. 468,415. 5 Claims. (Cl. 146—14.)



3. In a machine for skinning and coring tomatoes in a continuous operation, the combination with a wire-

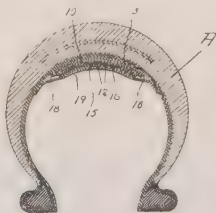
mesh conveyor belt comprising continuous longitudinal steel-wire strands and intermeshed crossed-wires, of means for washing and scalding tomatoes, means for slitting the tomatoes, and means cooperating with the conveyor belt for separating the pulp from the skins and cores.

1,423,422. SHOE HORN. IRWIN OTTO HARMS, Hillsboro, Kans. Filed Aug. 31, 1921. Serial No. 497,173. 3 Claims. (Cl. 132—8.)



1. A device of the character stated, including a heel engaging yoke, a cross piece connecting the extremities of the yoke, a plate pivoted on the yoke, a shoe horn integral with one end of the plate and located in a transverse plane to the plane of the plate, a handle integral with the other end of the plate, and substantially parallel with the shoe horn.

1,423,423. TIRE LINER. CHARLES F. HICKS, Romeo, Mich. Filed Mar. 31, 1922. Seral No. 548,431. 3 Claims. (Cl. 152—18.)



3. A reliner of the character described comprising a strip of flexible material, a plurality of longitudinally and transversely curved plates arranged in overlapping relation and riveted onto said strip, a relatively narrow packing strip disposed outwardly of said first named strip and covering the rivets, an outmost strip of rubberized fabric disposed outwardly of said packing strip and of greater width than first named strip whereby to project beyond the edges thereof, a second strip of rubberized fabric disposed inwardly of the metal plates, a plurality of metal plates disposed upon the outer periphery of said last named rubberized strip and formed at their corners with prongs pushed through and bent over with respect to said last named rubberized strip, said last named strip being of the same width as said first named rubberized strip and the projecting edges of both of the rubberized strips being vulcanized together, and a strip of fabric disposed inwardly of the assembled rubberized strips whereby to cover the prongs and prevent chafing of the inner tube.

1,423,424. WELL BUCKET. JAMES M. HOLLIDAY, Hollister, Mo. Filed Sept. 10, 1921. Serial No. 499,604. 2 Claims. (Cl. 294—69.)

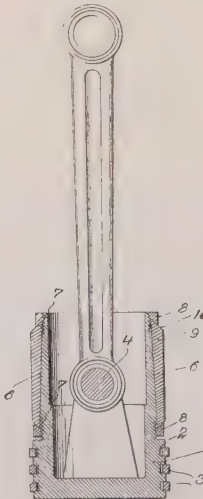
1. In combination, a bucket, a valve mechanism in the bottom end thereof, a valve stem controlling the valve

mechanism and extending through the bucket so as to terminate adjacent the upper end thereof, means for normally holding the valve stem so as to hold the valve mechanism in an open position, a bracket mounted on the upper end of the bucket, a guide rod fixed to the upper



end of the bracket with an aperture in each end, links slidably mounted in the apertures, a ring connecting the upper end of the links, and levers pivotally mounted to the lower end of the bracket so as to be controlled by the links and so as to operate the valve stem upon the lifting of the bucket so as to close the valve mechanism.

1,423,425. PISTON. CHRISTIAN PAUL HOUSEMAN, York, Pa. Filed Aug. 16, 1921. Serial No. 492,711. 1 Claim. (Cl. 74—108.)

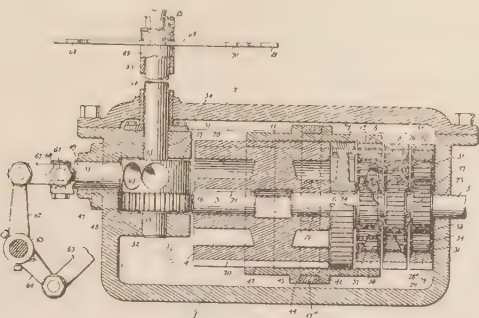


A piston of the class described having a tapered part, a split sleeve having a tapered bore engaging said tapered part and means for adjusting the sleeve longitudinally and circumferentially on the piston, such means comprising a pair of collars for engaging the ends of the sleeve.

1,423,426. TRANSMISSION GEAR FOR AUTOMOBILES. GEORGE O. HOWETH, Morattico, Va. Filed Oct. 3, 1921. Serial No. 504,984. 18 Claims. (Cl. 74—59.)

1. In transmission gear mechanism for auto-vehicles, a drive shaft, a drum fixed to said drive shaft and having

external spline grooves running longitudinally thereof, a driven shaft, a plurality of speed change gear units on said driven shaft, said gear units being externally toothed of uniform diameter and a sleeve provided with internal



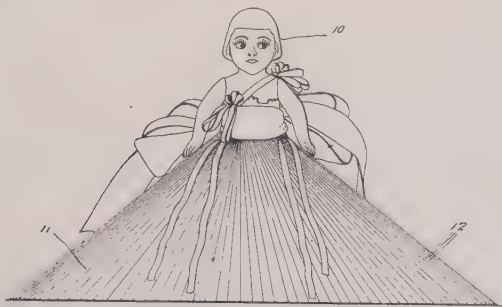
gear teeth at each end, means for shifting said sleeve so that while the internal teeth at one end permanently engage the grooves of said spline drum the internal teeth on the other end of said sleeve progressively engage external teeth of one of the speed change gear units.

1,423,427. APPARATUS FOR WEAVING BICYCLE AND AUTO CANVAS. ANDRIES WILLEM JANSEN, Geldrop, Netherlands. Filed Dec. 13, 1921. Serial No. 522,074. 3 Claims. (Cl. 139—18.)



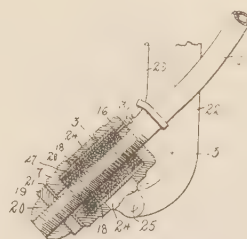
2. Weaving apparatus, comprising a tension device, and a plurality of spaced creels arranged in front of said tension device, said tension device comprising a plurality of cooperating rollers and a reed yieldingly supported in front of said rollers and each of said creels comprising a carrier extending radially with respect to said tension device, a row of bobbin pins supported by said carrier, and a member at the front of said carrier and extending laterally thereof, said member being provided with a plurality of guiding eyes for the individual warp threads carried by the bobbins supported in said carrier.

1,423,428. AMUSEMENT DEVICE. EMILY URSULA JAKUES, Visalia, Calif. Filed July 18, 1921. Serial No. 485,556. 2 Claims. (Cl. 46—41.)



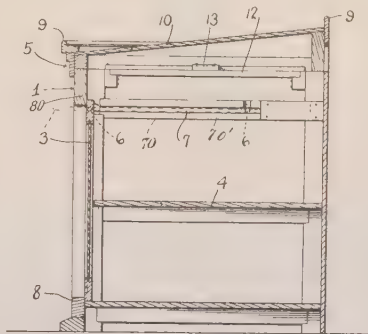
1. A device of the character described, comprising an image, a plurality of message carrying members consisting of sheets folded into triangular shape, the free corners thereof being arranged against the folded portions of said sheet and carrying said message, and means for supporting said members upon the image with said corners concealed from view, said members collectively forming a dress for said image.

1,423,429. SAND-PIPE HEATER. CHILTON B. JOHNS, Ebensburg, Pa. Filed Feb. 21, 1922. Serial No. 538,391. 2 Claims. (Cl. 291—20.)



1. An attachment for sand pipes comprising cap members attached to the sand pipe at the discharge end in spaced relation, a tubular member connecting said cap members and spaced from the sand pipe, heat imparting means between the tubular member and the pipe, and a combined nozzle device and lock nut attached to the pipe at its discharge end.

1,423,430. COUNTER. LAURENCE E. JONES, Wichita Falls, Tex. Filed Apr. 30, 1920. Serial No. 377,890. 1 Claim. (Cl. 211—11.)

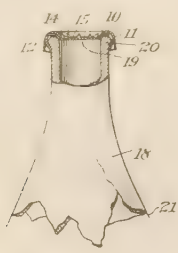


The combination of a casing having a bottom wall and side walls and also having an opening in one of said side walls, spaced above said bottom wall, bars arranged in the casing with their forward ends spaced from the side wall having the opening in the same horizontal plane as the upper portion of said opening, and having guideways, and a door to control said opening, said door arranged when closed to rest on said bottom wall back of the lower portion of said side wall, and being movable vertically to clear the portion of the side wall and swing outwardly beyond the wall portion below the opening, and being provided with trunnions slidable rearwardly in said guideways, whereby on opening of the door the opening will be entirely unobstructed and the door will be entirely out of the way for the removal of goods through the opening.

1,423,431. BOTTLE CAP. OTTO KAMPFE, Bellmore, N. Y., assignor of one-half to Henry C. Walker, New York, N. Y. Filed July 31, 1920. Serial No. 400,473. 4 Claims. (Cl. 215—38.)

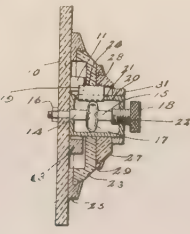
1. A bottle cap comprising an annular retainer member having an external flange adapted to engage the neck of a bottle and an inwardly extending internal flange, and a closure member having a peripheral flange, the said closure member and its peripheral flange being adapted to be engaged in the sealing operation by the said inwardly extending internal flange of the retainer member to turn over the peripheral flange of the closure member

causing the same to engage a portion of the internal flange of the retainer member, while the periphery of the internal



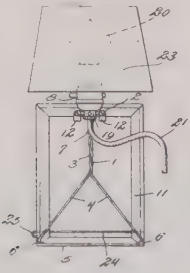
flange of the retainer member forces a portion of the closure member into the neck of the bottle to effectually seal the same.

1,423,432. AUTO THEFT PROTECTION. ANDREW KENDRICH, Cleveland, Ohio. Filed June 15, 1920. Serial No. 389,166. 3 Claims. (Cl. 200—43.)



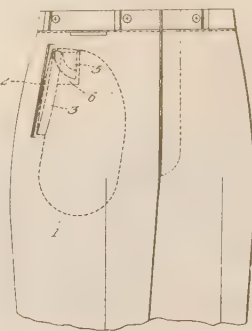
1. A switch comprising a base, spaced contact plates carried thereby, said plates including a pair of opposed semi-circular members, one of said members being adapted to define separate contacts each having one end spaced from the ends of the other semi-circular member, a switch closing member adapted to bridge the space between the contact plates, rotatable disks for normally holding the switch closing member in inactive position and means whereby the disks may be rotated to release the member to bridge the space between the contact plates and selectively close a circuit.

1,423,433. LAMP. ADOLPH A. KETCHUM, Chicago, Ill. Filed May 13, 1921. Serial No. 469,177. 6 Claims. (Cl. 240—4.)



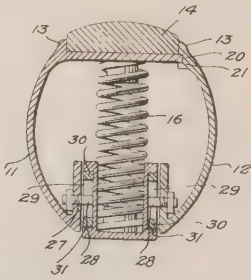
1. In a combination easel and lamp, the combination of a picture frame, a support therefor, a lamp supporting member thereon at its upper end, and means upon said supporting member for retaining a picture backing in said picture frame.

1,423,434. POCKET. JOHN LEE KIRK, Waynesboro, Pa. Filed Mar. 21, 1921. Serial No. 454,179. 1 Claim. (Cl. 2—15.)



A pocket for replacing a worn pocket of a garment having an opening therein and a strip of adhesive around the opening and means for adjusting the size of the opening, such means consisting of a flap formed of one side of the pocket and a small pocket at the opposite side thereof for receiving the flap.

1,423,435. COMBINATION TIRE AND RIM. CHARLES O. LAMBREMONT, Plaquemine, La. Filed July 3, 1920. Serial No. 393,834. 1 Claim. (Cl. 152—38.)

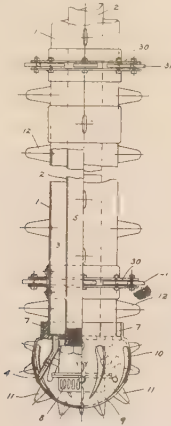


In combination, a sectional tire, a rim including spaced parallel sides arranged between the tire sections, partitions formed on the tire sections, the partitions of one section being comparatively wide with regard to the partitions of the other section, fastening means passed through said sections for holding the latter operatively associated, said fastening elements being passed through said partitions, certain of said partitions being reduced to form stops, an annular flange formed on each tire section, a tread portion fitted between said flanges, yieldable means interposed between the tire and said rim, each side of said rim having recesses, washers fitted in said recesses and having elongated slots, and pins carried by the tire sections and movable within said slots of the washers to provide for an eccentric movement of the tire with regard to the wheel as described.

1,423,436. COMBINED WATER-JET AND SUCTION APPARATUS AND MEANS FOR OPERATING THE SAME. LEE LARSEN, Tampico, Mexico. Filed June 1, 1920. Serial No. 385,849. 5 Claims. (Cl. 37—45.)

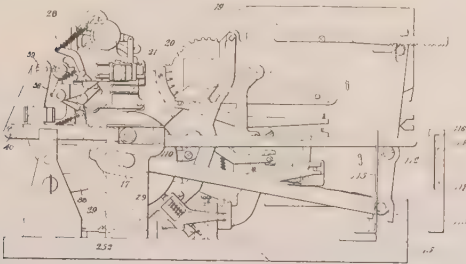
1. A combined water jet and suction apparatus, consisting of two concentrically arranged tubes forming an annular space for conducting water for the jet pipe system and a passage for the excavated material; a ball bearing swivel attached to the upper end of the tubes, having inlet for water supply and outlet for the excavated material arranged to said tubes, the lower end of

said tubes being connected to a bowl-shaped head, said jet pipe being jointed to said annular space passing through



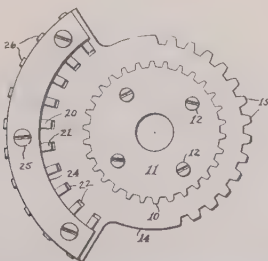
said head, said head having means for cutting and loosening material to be excavated.

1,423,437. CARRIAGE OPERATING MECHANISM. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 28, 1917, Serial No. 158,142. Divided and this application filed Jan. 30, 1918. Serial No. 214,478. 5 Claims. (Cl. 235—58.)



2. In an apparatus of the character described, the combination of a carriage; a lever comprising two parts having openings adapted to be aligned with each other; means operatively connecting the carriage to one of said parts; means for reciprocating the other of said parts; and means adapted to be passed through said openings to lock said parts together.

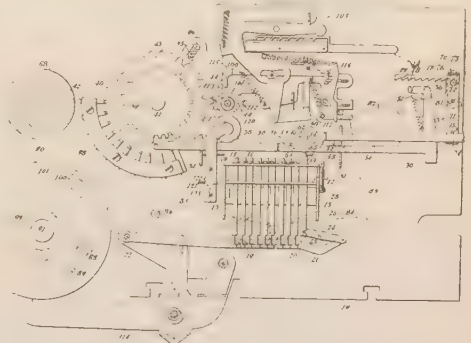
1,423,438. TYPE CARRIER. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 28, 1917, Serial No. 158,142. Divided and this application filed Apr. 3, 1918. Serial No. 226,497. 8 Claims. (Cl. 235—58.)



1. In a type carrier, the combination of a flat main portion provided with recesses and openings; and type pieces

against the face of said portion and each provided with lateral projections engaging in the notches and recesses respectively.

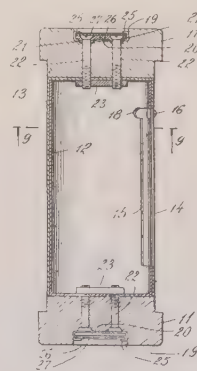
1,423,439. SECTOR CONTROL FOR TABULATING MACHINES. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 3, 1918. Serial No. 226,499. 22 Claims. (Cl. 235—58.)



1. In an apparatus of the character described, the combination of character carriers; means for preventing retrograde movement of the carriers and comprising a device associated with each carrier, and a single device engaged part common to all of the devices; and means for moving the single engaged part out of the path of the devices.

12. In a device of the character described, the combination of accumulating means; means for positioning the accumulating means comprising a movable part; means for engaging said movable part for positioning the accumulating means; and a roller adapted to be engaged by the accumulating means for pushing said movable part out of the path of said driving means when the accumulator is in total indicating position.

1,423,440. IDENTIFYING MEANS FOR PNEUMATIC-DISPATCH-TUBE CARRIERS. FRANK S. LEAVITT, Melrose, and ERNEST A. STAPLES, Dorchester, Mass., assignors to Atlas Devices Company, Inc., a Corporation of New York. Filed July 29, 1921. Serial No. 488,313. 5 Claims. (Cl. 243—39.)

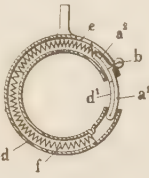


1. A pneumatic dispatch tube carrier comprising a body portion and a buffer head at the end thereof, said buffer head having a recess, means in said recess for securing the buffer head to said body portion, and an identifying device fastened in the recess by said buffer securing means.

1,423,441. BOLT FOR SPRING RINGS AND PROCESS OF MANUFACTURING THE SAME. LUCIEN LEMAITRE, Paris, France. Filed Mar. 24, 1921. Serial No. 455,304. 2 Claims. (Cl. 29—160.6.)

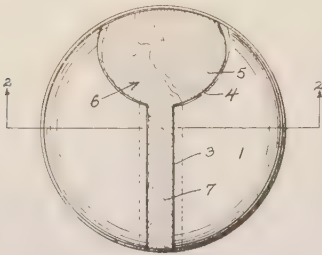
1. A bolt for a spring ring for jewelry, characterized in that the body of the bolt and the operating button are

formed by a common metal wire of semi-cylindrical section or of flattened half-round form, this wire being bent at a point in its length in order to form the button, and at each of its ends, its flat surfaces being applied one against the



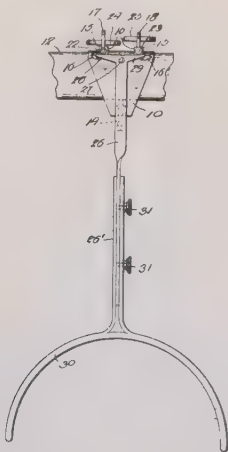
other, in such a manner that the finished bolt has a cylindrical form with rounded ends and its button, after compression, has a perfectly circular section with its joint completely hidden.

1,423,442. BOX AND ATTACHMENT THEREFOR. EDWIN C. J. LLOYD, Jeannette, Pa. Filed Aug. 31, 1920. Serial No. 407,120. 2 Claims. (Cl. 220—85.)



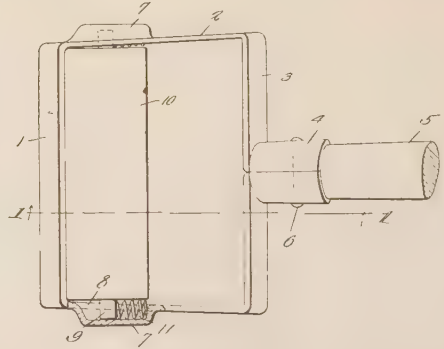
2. In combination with a box including a cover provided with a diametrically extending dovetail groove and a recess communicating with the groove at one end thereof and open at its outer end, said recess being of greater depth than said groove, a brush including a handle fitting snugly within the groove and a head positioned within said recess and including bristles disposed at right angles to the handle.

1,423,443. CARRIAGE-SHIFTING MECHANISM FOR TYPEWRITERS. ROCKWELL A. LOOMIS, Guatemala, Guatemala. Filed Nov. 7, 1921. Serial No. 513,463. 5 Claims. (Cl. 197—78.)



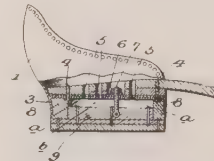
1. The combination with a typewriter of a lever pivoted thereto and depending therefrom and levers pivoted to the frame and extending over the typewriter mechanism and adapted to be depressed selectively by movements of the first-mentioned lever in opposite directions.

1,423,444. MOP. JOHN MCNAUGHTON, New York, N. Y. Filed Jan. 21, 1920. Serial No. 352,964. 1 Claim. (Cl. 15—119.)



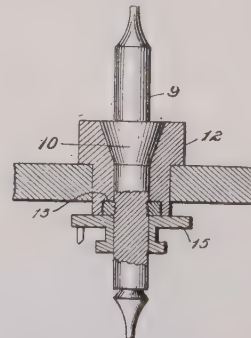
A mop head including forwardly converging sides, a transversely rounded connection integral with the sides at the forward ends thereof, there being longitudinal depressions within the inner faces of the sides of the head, a roller interposed between the sides, studs projecting therefrom and slidable within the depressions, and springs housed within the depressions and thrusting against the studs to hold the roller normally pressed against the connection, said springs being housed between the ends of the roller and the side portions of the head.

1,423,445. SHOE. EMILIO MAGALDI, Naples, Italy. Filed May 14, 1920. Serial No. 381,487. 1 Claim. (Cl. 36—35.)



In a shoe, an upper sheet metal portion having a flange adapted to fit about the rear of the shoe, an apertured sole secured to said upper portion, a rubber ring carried by the upper portion, a lower or wear part comprising a plurality of members, one of which extends into the rubber ring but is of less height than the same to form an air space, and means for detachably securing the said lower portion to the upper portion.

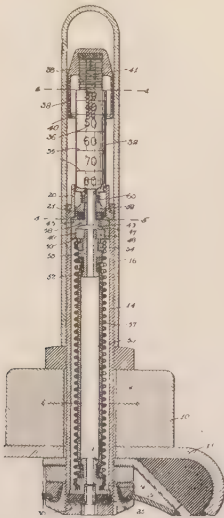
1,423,446. BALANCE STAFF FOR TIMEPIECES. WILLIAM H. H. NEEDY, Hagerstown, Md. Filed Aug. 11, 1921. Serial No. 491,598. 2 Claims. (Cl. 58—140.)



1. In a device of the class described, a balance arm, a bushing rigidly affixed centrally of said arm, the bushing

having an angular surface in its bore, a staff, an enlargement on said staff corresponding to the shape and size of the angular portion of said bushing, the bushing having a recess in one end, threads on said staff, and a nut to engage with said threads and adapted to enter said recess and to draw the bushing and enlargement in locking engagement with each other.

1,423,447. MAXIMUM-PRESSURE INFLATING VALVE AND GAUGE. SAMUEL B. NOE, Ocean Grove, N. J. Filed Mar. 1, 1921. Serial No. 448,842. 9 Claims. (Cl. 152—11.5.)



9. A maximum pressure inflating valve and gauge for inflatable bodies comprising an outer sleeve adapted for connection at its inner end with said body, said sleeve having its bore reduced adjacent its outer end to provide an annular internal stop shoulder, an inner sleeve telescopically arranged in said outer sleeve and projectable through said reduced bore, an inwardly opening check valve in said sleeve, a reduced neck extending inwardly from said hollow sleeve, an enlarged head carried by the free end of said neck and adapted to co-act with the stop shoulder of the outer sleeve to limit the outward projection of the inner sleeve therethrough, an extensible elastic tube connecting the head with the inner end of the outer sleeve, establishing communication between the inflatable body and said sleeve and functioning to normally retract the inner sleeve within the outer sleeve, outlet openings in the enlarged head communicating with its bore, a valve slidably mounted on the neck, and means disposed between the valve and the inner sleeve for normally projecting said valve into contact with the enlarged head to close the outlet openings, said valve being operable to relieve the inflatable body of excess pressure when the internal pressure reaches a predetermined maximum.

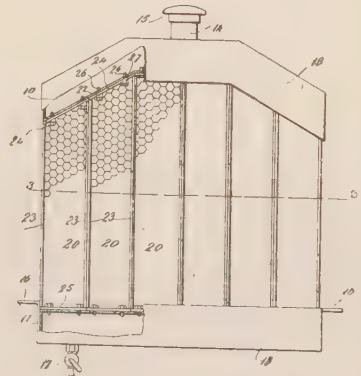
1,423,448. FOUNTAIN PEN. JAMES A. O'CONNOR, Bridgeport, Conn. Filed Dec. 15, 1920. Serial No. 430,894. 4 Claims. (Cl. 120—42.)



3. In a fountain pen, the combination of a pen, a shield extending over a portion only of the pen leaving the greater portion thereof exposed for writing, a nozzle, a stop surface on the shield, a stop surface on the nozzle, an internal joint surface on said shield, and a cap hav-

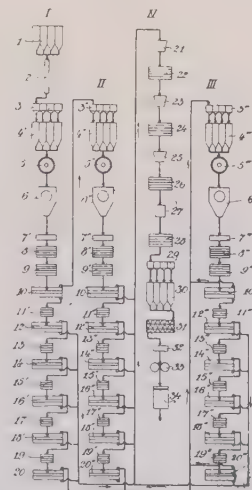
ing stop surfaces bearing on said stop surfaces and an external joint surface bearing on the internal joint surface of the shield throughout its extent, said stop surfaces on said cap being spaced apart the distance between the stop surface on the nozzle and the stop surface on the shield.

1,423,449. SECTIONAL RADIATOR. ROY OSHKOSH, Manitowoc, Wis., assignor of one-fourth to Samuel W. Randolph, Manitowoc, Wis. Filed Aug. 28, 1920. Serial No. 406,589. 1 Claim. (Cl. 257—130.)



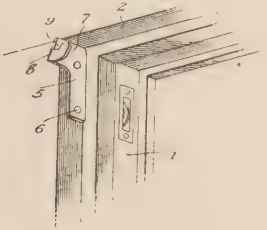
An automobile radiator comprising upper and lower tanks, the upper tank being provided in its bottom with a plurality of openings and a series of threaded holes, the lower tank being provided in its top with a plurality of openings and a series of threaded holes, a plurality of sections disposed between said tanks and having their upper and lower ends flat to conform to the bottom and top of the upper and lower tanks respectively, said sections being disposed in contacting relations to one another, cap screws carried by the upper and lower ends of the sections and threadedly engaged within said threaded holes in the bottom of the upper tank and top of the lower tank, and said flat ends being provided with openings registering with the openings in the tanks, the sections being removable.

1,423,450. PROCESS FOR THE PRODUCTION OF OAT GROATS AND THE LIKE. HANS CHRISTIAN OTTERSTEDT, Svalof, Sweden. Filed Oct. 20, 1920. Serial No. 418,254. 2 Claims. (Cl. 83—42.)



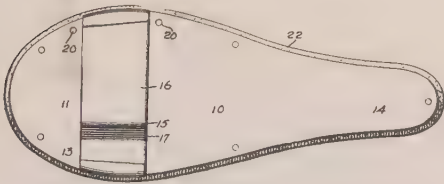
1. A process for the production of oat groats, consisting in first treating the oats for the purpose of hulling

1,423,455. HANGER. WILLIE LEE RIVERS and GEORGE BRITTON DIXON, Dallas, Tex. Filed Jan. 28, 1922. Serial No. 532,519. 1 Claim. (Cl. 16—172.)



Hangers for the purpose set forth, comprising cooperating members each of which including a flat body apertured for the reception of securing means, each of said bodies having a laterally extending head on the upper end thereof, one of said heads having an upwardly inclined flange at the outer edge thereof which is of a less width than the head proper and which has a notch in a line with its juncture with the head, the head of the cooperating member having its outer edge provided with a downwardly inclined finger and its outer edge arranged at an angle from the terminal of the finger to its juncture with the body, as and for the purpose set forth.

1,423,456. FOOT SUPPORT. ARPAD ROTH, New York, N. Y. Filed June 3, 1921. Serial No. 474,703. 2 Claims. (Cl. 36—37.)

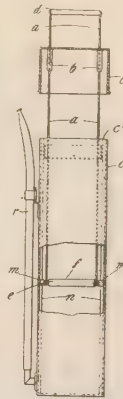


1. A foot support comprising a pear-shaped body having the rear enlarged portion thereof twisted transversely to dispose the same at an angle to the forward restricted portion, and a depending brace secured to under side of the rear enlarged portion for maintaining said portion at an angle, said foot support being arranged within the shoe to dispose the elevated side toward the inner side of the heel in order that the position of the heel of the foot will be inverted to promote the correct articulation and posture of the same.

1,423,457. DAYLIGHT DEVELOPING TANK FOR PHOTOGRAPHIC ROLL FILMS. GEORGE VERE ROWDEN, Hove, England. Filed Jan. 28, 1921. Serial No. 440,788. 2 Claims. (Cl. 95—90.5.)

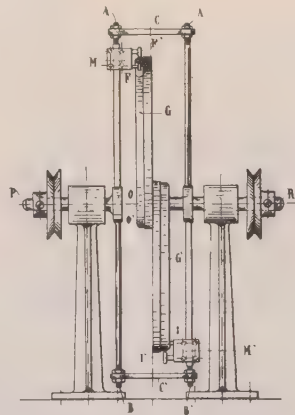
1. A daylight developing tank for roll films comprising a tank having a pair of opposed guides on its inner walls, a cap adapted to close said tank, a support for the roll of film within said tank, and a feeding slide consisting of two members adapted to slide through the cap of the tank, a connection between the outer ends of said mem-

bers, a bar carried by the inner ends of said members, one or more rollers mounted on said bar between said



members and rollers mounted on the ends of said bar exterior to said members and adapted to engage the guides in the tank

1,423,458. CHANGE-SPEED GEAR. ANDRÉ SAVARY, Paris, France. Filed Mar. 23, 1921. Serial No. 454,833. 4 Claims. (Cl. 74—14.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

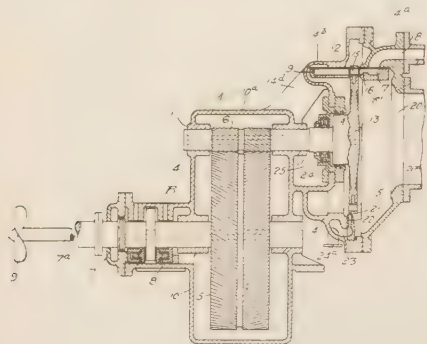


1. A change-speed gear, comprising a driving shaft, a member secured to said shaft to rotate therewith, a weight slidably mounted on said member, and an element provided with a race which is slidably engaged at its periphery by the weight; said weight being shiftable along said member away from the axis of said shaft and pressed against said race by the action of centrifugal force, when the driving shaft is rotated, so as to drive said element at a speed which varies automatically consequent upon the to and fro movement of the weight with relation to said axis.

1,423,459. GEARED TURBINE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Aug. 31, 1917. Serial No. 189,217. 23 Claims. (Cl. 60—70.)

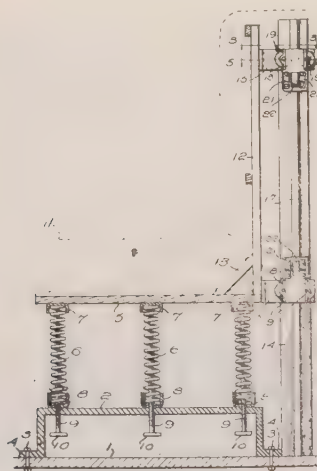
1. In an organized power developing apparatus, a gearing comprising a driving gear, a driven gear, and a casing

in which said gears are journaled, in combination with a turbine comprising a rotor element, mounted on an over-



hanging end of the shaft of the driving gear, a housing for the rotor element, divided along planes corresponding to divisions of the casing.

1,423,460. SPRING SEAT. LOUIS SCHREIBER, Holland, Mich. Filed Aug. 29, 1921. Serial No. 496,300. 2 Claims. (Cl. 155-53.)

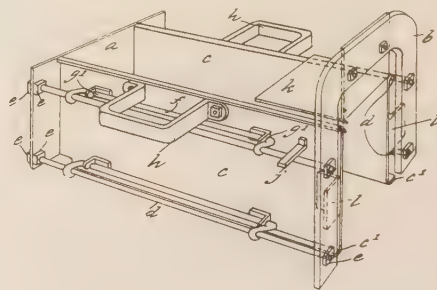


1. A spring seat comprising a base, springs arranged on said base, a seat bottom arranged on said springs, a back secured to said seat bottom, a guide arranged adjacent said back near each side thereof, brackets secured to said back adjacent said guides, a pair of rollers carried by each of said brackets and engaging opposite sides of said guides, the axes of said rollers being arranged parallel to said back, and a roller carried by each of said brackets, the axes of said last named rollers being arranged at right angles to said back and adapted to engage the inner faces of said guides.

1,423,461. MOLD FOR USE IN BUILDING WALLS, MAKING BLOCKS, SLABS, TILES, OR BRIQUETTES. BASIL SCRUBY and GEORGE KETTELWELL HARKNESS, Harlow, England. Filed Apr. 6, 1920. Serial No. 371,605. 5 Claims. (Cl. 25-121.)

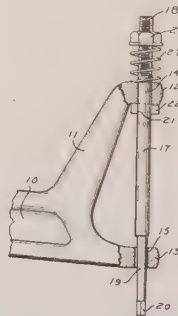
1. A bottomless mold of the class described, comprising two end members suitably spaced apart, rigid longitudinally disposed pieces connected at their opposite ends directly to said end members and holding said end members relatively immovable, a pair of movable side mold plates, and connecting arms pivoted to the movable side plates and to the rigid connecting pieces, said movable side plates

being adapted to swing upward and outward about the axes of the rigid connecting pieces from an operative position into an inactive position.



5. A bottomless mold of the class described, comprising an open arched end member and a closed end member suitably spaced apart, longitudinally disposed pieces rigidly connecting the two end members and adapted to hold them relatively immovable, a pair of movable longitudinally arranged side mold plates extending from one end member to the other and having parts extending through and beyond the open end member, and connecting arms pivoted to the movable side plates and to the rigid connecting pieces and adapted to swing upward and outwardly about the axes of the rigid connecting pieces from an operative position into an inactive position.

1,423,462. FACING TOOL. JAMES ANSON SHARPBACK, Rices Landing, Pa. Filed Feb. 5, 1921. Serial No. 442,731. 3 Claims. (Cl. 90-11.)

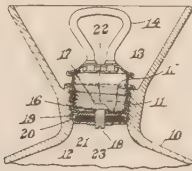


1. A facing tool, comprising an elongated shank having one end threaded and adapted to be inserted in the registering openings of a steering knuckle axle and turned therein, a removable cutter on the shank intermediate of its ends, the cutter being provided with a recessed lower edge and the shank with means for engaging the recessed edge of the cutter, a nut on the threaded end of the shank, and a spring on the shank and adapted to be compressed by the nut between it and the said axle, whereby the cutter will be held in locked engagement with the inner face of one arm of the knuckle axle.

1,423,463. STOPPER FOR HOT-WATER BOTTLES. AL B. SHAW, Medford, Mass., assignor to Shaw Specialty Co. Inc., West Medford, Mass., a Corporation of Massachusetts. Filed Feb. 7, 1921. Serial No. 442,968. 6 Claims. (Cl. 150-8.)

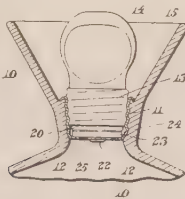
1. A hollow threaded bottle stopper having a bottom plate, a headed screw extending through said bottom plate

and freely revoluble therein, a packing disk surrounding the shank of said screw, a washer threaded to said screw



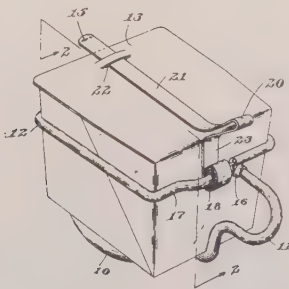
between said disk and stopper, and means for preventing the displacement of said disk.

1,423,464. STOPPER FOR HOT-WATER BOTTLES. AL B. SHAW, Medford, Mass., assignor to Shaw Specialty Co. Inc., West Medford, Mass., a Corporation of Massachusetts. Filed Jan. 20, 1922. Serial No. 530,672. 6 Claims. (Cl. 215—49.)



1. A threaded bottle stopper having a bottom plate provided with a central flanged projection; a packing member freely revoluble about said flanged projection; and a metal washer between said packing member and bottom plate.

1,423,465. RECEPTACLE HOLDER. ORVILLE O. SHELLE, Chicago, Ill. Filed June 10, 1921. Serial No. 476,456. 5 Claims. (Cl. 4—39.)

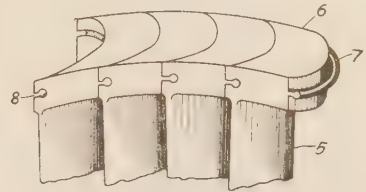


1. A holder adapted to receive a receptacle having a cover mounted thereon comprising means cooperating with the holder to maintain the cover in closed position, said means comprising a continuous strip of flexible material having one end fixedly attached to the holder and the other end attached to the cover of the receptacle.

1,423,466. INTERLOCKING BLADE SHROUD. JOHN EDWIN SNYDER, Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 2, 1920. Serial No. 414,179. 5 Claims. (Cl. 253—177.)

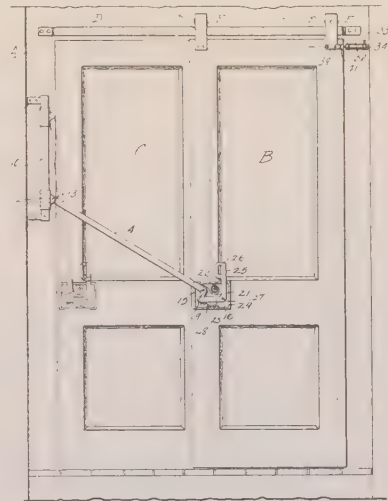
1. In combination with the impulse blades of a turbine,

a shroud member formed on the end of each blade and having convex and concave faces formed to cooperate



with the faces of adjacent blades, and an interlocking key for locking adjacent faces together.

1,423,467. SELF-CLOSING AND CONTROLLING MEANS FOR DOORS. BERNHARD SPITZFADEN, Brooklyn, N. Y. Filed Sept. 30, 1920. Serial No. 413,839. 9 Claims. (Cl. 292—262.)

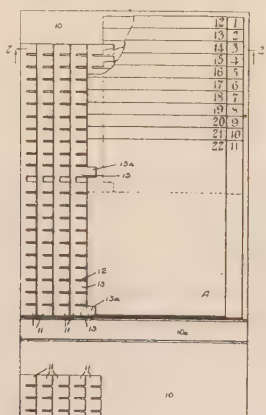


1. A self-closing means for doors including a vertical guide rod, a vertically sliding element thereon, a lever pivoted to said element and adapted to be pivoted at its opposite end to a door, and spring means exerting its pressure at one end on said lever and adapted at its opposite end to be secured to the door, said means normally tending to rock said lever in a direction to move the said lever for closing the door.

1,423,468. WOODEN BUILDING. JOSEPH G. STADELMAN, Chicago, Ill. Filed July 17, 1919. Serial No. 311,576. 7 Claims. (Cl. 20—2.)

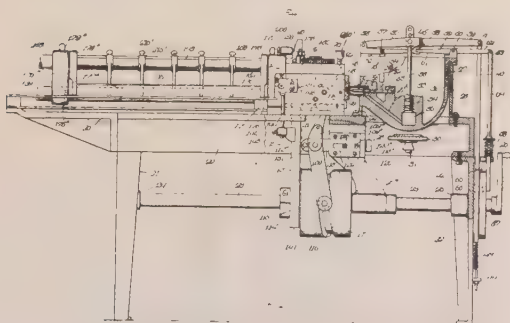
1. In portable house construction, the combination of a sill beam, and side wall sections, a longitudinally extending groove in the top of said beam, the upper outer corner of said beam being cut away to leave a supporting ledge, each side section comprising vertical studs, a board secured to the inner lower ends of said studs, and siding boards se-

1,423,473. FOLDER FOR PRESCRIPTION BLANKS. ROLAND BAXTER TAYLOR and LUCINDA TAYLOR, Melville, Saskatchewan, Canada. Filed May 19, 1921. Serial No. 471,001. 3 Claims. (Cl. 129—19.)



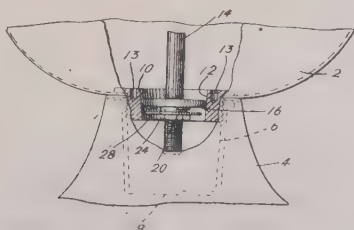
1. In a device of the class described, a series of strips of varying widths superimposed in stepped form, each strip presenting a longitudinal series of tabs adapted to be secured to the sheets to be held.

1,423,474. STRIP-CASTING MACHINE. JOHN S. THOMPSON, Chicago, Ill. Filed Nov. 20, 1920. Serial No. 425,363. 7 Claims. (Cl. 164—42.)



1. A device for cutting strips of material into sections of definite length, the combination of a cutting and trimming mechanism; an intermittently moving means for operating said mechanism; a ratchet operated by said intermittently moving means, and means operated at a predetermined time by said ratchet to connect said intermittently moving means to said cutting mechanism.

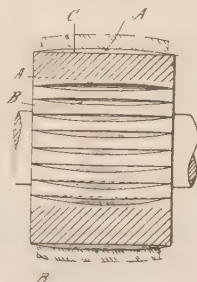
1,423,475. PERCOLATOR. MAURICE L. WARNER, Meriden, Conn., assignor to Manning, Bowman & Company, Meriden, Conn., a Corporation of Connecticut. Filed Dec. 13, 1921. Serial No. 521,971. 7 Claims. (Cl. 53—3.)



1. A percolator having, in combination, a heating chamber having an opening in its upper end, and a percolator

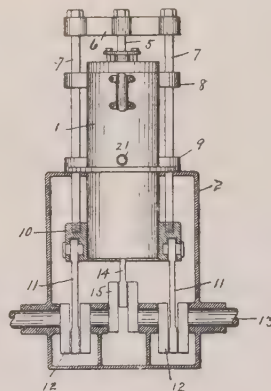
tube provided with an enlarged portion having a rounded edge engaging the wall of said opening so as to permit tipping movement of the tube with relation to the heating chamber.

1,423,476. PULLEY. MILTON F. WILLIAMS, St. Louis, Mo., assignor of forty-nine one-hundredths to Harold M. Plaisted, St. Louis, Mo. Filed Aug. 19, 1920. Serial No. 404,564. 6 Claims. (Cl. 64—17.)



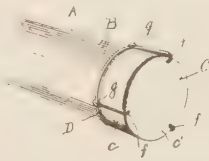
1. A high speed pulley provided with transverse grooves that are radially deeper in the middle of the pulley face than near the rim edges, and one face of which grooves is inclined backward in the direction of rotation, substantially as described.

1,423,477. INTERNAL-COMBUSTION ENGINE. FERDINAND BIRCHBAUER, Baltimore, Md., assignor of one-half to Joseph H. Fallin, Baltimore, Md. Filed Sept. 16, 1919. Serial No. 324,121. 1 Claim. (Cl. 123—51.)



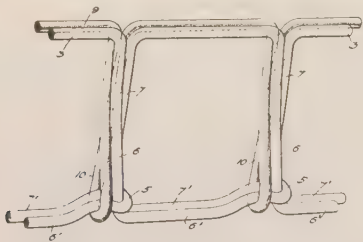
In an internal combustion engine, the combination of the cylinder having a passage at its upper end, an intake opening in said passage, and ports connecting said passage with the combustion chamber of said cylinder, a valve to control said intake opening, a passage at the lower end of said cylinder, an exhaust opening to the passage at the lower end of the cylinder, and ports leading from the combustion chamber to the passage at the lower end of the cylinder, a crank-case into which the lower end of said cylinder projects, a crank-shaft mounted in said case and having two cranks set at the same degree and one crank set opposite to the first mentioned two cranks, two pistons within said cylinder, a rod connecting the lower piston with the crank shaft, a cross-head above said cylinder, a rod connecting the upper piston with the said cross-head, a ring surrounding the lower end of the said cylinder, two rods connecting the cross-head with said ring, and rods connecting the said ring with the first mentioned two cranks on the crank-shaft.

1,423,478. BUNDLED WIRE. SPENCER C. CARY, Brooklyn, N. Y., assignor to Cary Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 3, 1922. Serial No. 549,122. 15 Claims. (Cl. 206—59.)



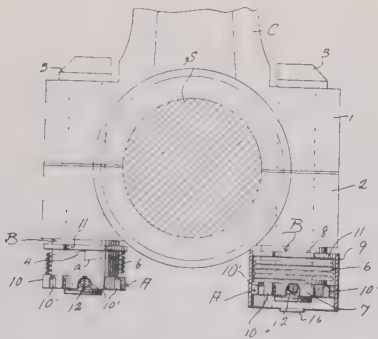
1. A commercial package embodying a multiplicity of elements in lengths, means against which the ends of the elements engage, certain of said elements extended beyond said means and secured intermediate the ends of the elements to retain said means fixedly relatively to the ends of the elements.

1,423,479. SEAM FOR SEWED ARTICLES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Aug. 4, 1917. Serial No. 184,448. 9 Claims. (Cl. 112—262.)



7. A seam for sewed articles comprising body-fabric material having punctures, a main thread having portions extending lengthwise of the line of seam at the upper face of the material and presenting penetrative main loops extending through said punctures to the under face of the material and enchainned with one another to form single-chain stitches, and an additional thread having portions extending lengthwise of the line of seam at the upper face of the material and presenting auxiliary penetrative loops extending into the punctures occupied by said main loops, each of said auxiliary loops embracing and being keyed by a main loop.

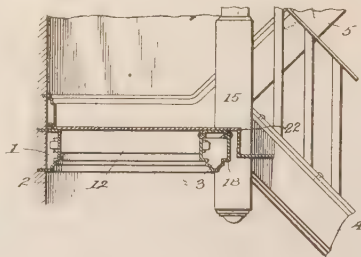
1,423,480. COMPENSATING DEVICE. JOSEPH GUMBER and FRED. F. FEARHEILEY, East Moline, Ill., assignors to Automatic Takeup Nut Company, East Moline, Ill., a Corporation. Filed July 16, 1921. Serial No. 485,337. 3 Claims. (Cl. 85—32.)



1. A compensating device of the class described comprising two members, said members having rotation one relative to the other when applied to the work, opposed

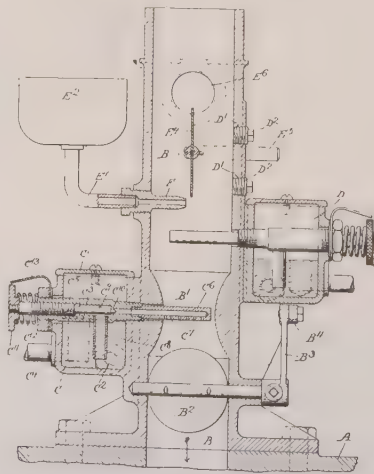
faces of the members being provided with beveled portions adapted to contact, a spring coacting with said members to automatically rotate the members one with respect to the other, and means engageable with the members for holding the same against relative rotation before being applied to the work.

1,423,481. STAIR LANDING OR PLATFORM. AKOS J. HALL, Cleveland, Ohio. Filed Sept. 23, 1919. Serial No. 325,612. 2 Claims. (Cl. 189—43.)



1. In a metal stair platform, the combination of beams having openings therein, means for anchoring said beams in a wall, cross beams interposed between said beams, means on said cross beams received in the openings of said beams for supporting the cross beams thereon, and a floor platform fastened to the beams.

1,423,482. PROCESS OF SUPPLYING A COMBUSTIBLE MIXTURE TO INTERNAL-COMBUSTION ENGINES. WILLIAM H. C. HIGGINS, Jr., Laporte, Ind. Filed Sept. 24, 1917. Serial No. 193,043. 2 Claims. (Cl. 123—25.)

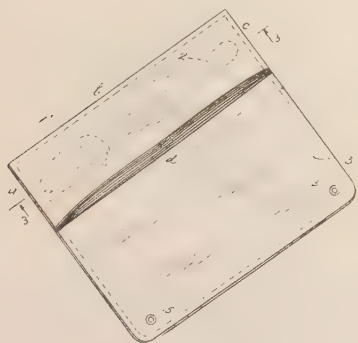


2. The process of supplying a combustible mixture to an internal combustion engine, which consists in moving a continuous column containing all the air used in the engine toward the engine and setting up in such continuous column varying zones of pressure and feeding water to one zone and fuel to another, and causing said zones of pressure to vary in relative degree during variation in the velocity of the air column.

1,423,483. DISPLAY ROLL FOR FLAT METAL TABLEWARE. JAMES G. LUDLUM, Bridgeport, Conn. Filed June 21, 1921. Serial No. 479,221. 3 Claims. (Cl. 150—52.)

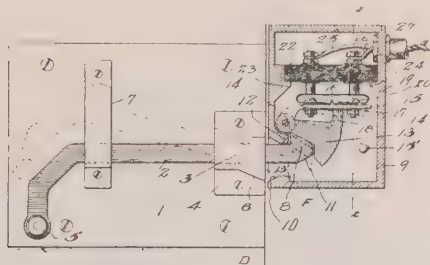
1. A display roll for flat metal table ware comprising a plurality of partitions of soft flexible material all of

which are secured together at one side to form a plurality of juxtaposed pockets adapted to hold the table ware articles in nested relation, a tab secured to the parti-



tions at the sides which are secured together and adapted to be wrapped around the same, and means for securing the tab in wrapped relation.

1,423,484. DOOR LOCK. HOMER BAR McCARTY, Ogden, Utah, assignor to O-K Elevator Safety Lock Company, Ogden, Utah, a Corporation. Filed July 7, 1921. Serial No. 482,973. 3 Claims. (Cl. 187—31.)

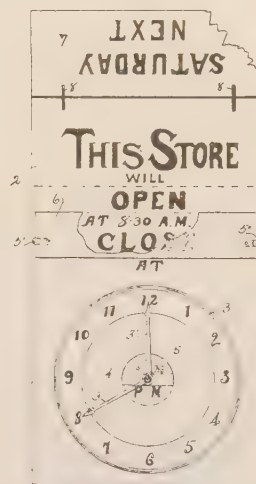


3. The combination in a door locking mechanism including electrical connections forming part of a control circuit, of a casing and terminal posts therein, a shaft within the casing, a carrier pivoted on said shaft and a conductor plate on said carrier adapted to contact with said posts, a weighted bumper arm pivoted on said shaft and a lug on said arm to engage and hold said carrier in uplifted position, a sliding door and latch bar pivoted thereon, a hooked end on said latch bar adapted to be projected through an opening in said casing, a locking lug on said casing for the hooked end, and said hooked end adapted to hold said bumper arm and carrier in uplifted position, for the purpose described.

1,423,485. BUSINESS-HOURS PLACARD. JOHN T. McNIFF, Waterbury, Conn., assignor to Raymond F. McNiff, Waterbury, Conn. Filed Feb. 19, 1921. Serial No. 446,238. 3 Claims. (Cl. 116—131.)

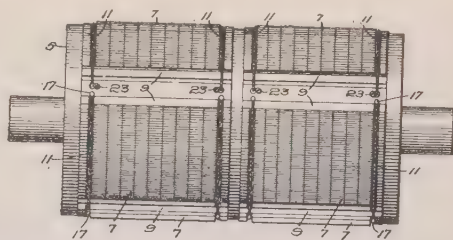
1. A business hours placard comprising solely a flat body formed from card-board and having arranged thereon general readable matter, and a plurality of contextual tabs, the latter conjointed collectively by means of metallic rings with said body for a free swinging movement upwardly over and beyond the uppermost margin thereof, and bearing, respectively, specific readable mat-

ter readable contextually into the general readable matter aforementioned when caused, separately or more or less col-



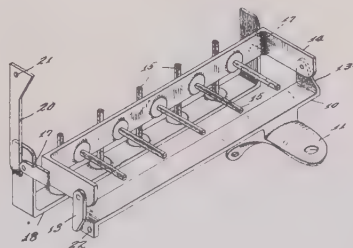
lectively, to traverse and overlie the upper portion of that face of the body bearing such general readable matter.

1,423,486. SECURING MEANS FOR PRINTING PLATES. CHARLES A. MEISEL, Dorchester, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 26, 1921. Serial No. 440,150. 4 Claims. (Cl. 101—378.)



1. In combination with a plate holder a binder adapted to overlie a plate thereon, means to secure one end of the binder to the holder, a plug on the other end of the binder, said holder having a cavity of relatively great depth to receive the plug and means to depress the plug into the cavity.

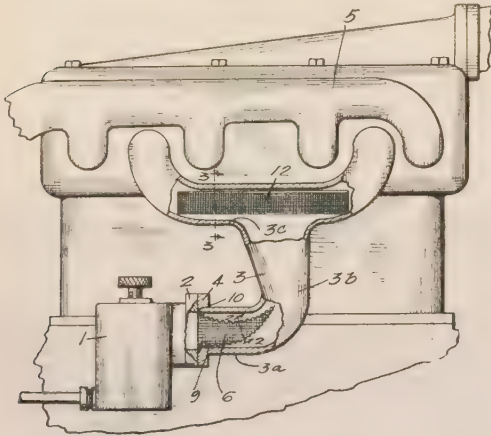
1,423,487. SPOOL HOLDER FOR SEWING MACHINES. HENRY A. MEISEL, Indianapolis, Ind., assignor to Kahn Tailoring Company, Indianapolis, Ind., a Corporation of Indiana. Filed June 2, 1921. Serial No. 474,546. 10 Claims. (Cl. 242—139.)



2. As an article of manufacture, a spool holder for sewing machines comprising a main bar adapted to be secured

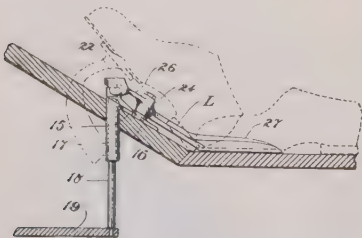
to a sewing machine and presenting an unobstructed upper surface, and a spool pin supporting bar provided with a relatively fixed depending spool pin and hingedly connected to said main bar to support the spool pin in retaining position perpendicular to the main bar and with its end spaced from the main bar a distance exceeding the thread diameter and movable to move the spool pin to a position substantially at right angles to the main bar and into a spool receiving position.

1,423,488. HOMOGENIZER. LUCIUS J. PHELPS, Los Angeles, Calif., assignor to William J. Humphreys, San Gabriel, Calif. Filed May 19, 1921. Serial No. 470,926. 4 Claims. (Cl. 48—180.)



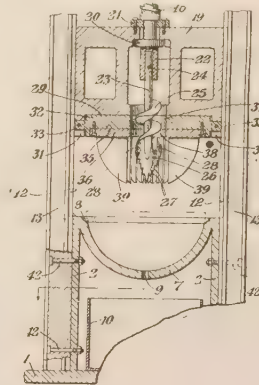
1. The combination with an internal combustion engine including an intake manifold having a flanged coupling end and including a transverse portion communicating with a perpendicular extension, of an impingement element in said manifold for breaking up the combustible mixture and including an annulus clamped in position by said coupling flange for supporting said impingement element, and a second impingement element for breaking up the combustible mixture and received in said transverse portion of the manifold so as to extend across the perpendicular extension of said manifold.

1,423,489. FOOT ACCELERATOR. HERBERT V. SOUDERS, Wilmington, and JESSE M. FROST, Long Beach, Calif. Filed Dec. 29, 1921. Serial No. 525,612. 3 Claims. (Cl. 74—81.)



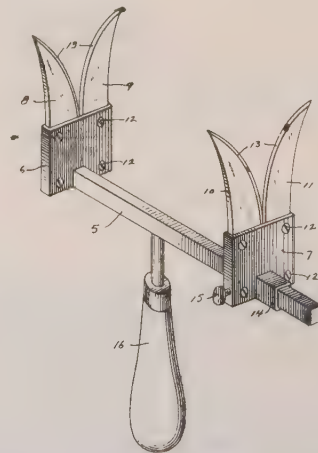
3. A foot accelerator comprising a lever including an inclined portion and a horizontal portion, means for pivotally sustaining the lever so that the same is adapted for swinging movement over the floor boards of a motor vehicle, a foot rest beneath the lever, a shaft having operative connection with the lever, and means carried by the lever and engageable with the shaft for limiting the movement of the lever in one direction or the other.

1,423,490. FRUIT SEEDER AND SLICER. GEORGE VAFIADES and JOHN KOUKOS, New York, N. Y. Filed Dec. 16, 1920. Serial No. 431,247. 14 Claims. (Cl. 146—6.)



7. In a fruit cutting device a cutter having a plurality of radially disposed double blades and peripheral blades arranged between each pair of blades.

1,423,491. BUDDING IMPLEMENT. VINCENT CALANDRA, Buffalo, N. Y. Filed Mar. 24, 1920. Serial No. 368,277. 4 Claims. (Cl. 47—6.)

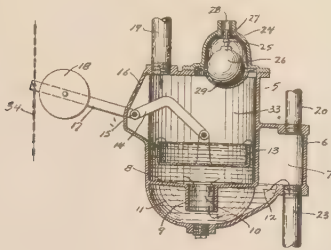


1. A budding implement characterized by having a rigid bar, stationary cutting blades rigidly mounted at one end of the bar, adjustable cutting blades slidably mounted upon the opposite end of the bar, and means for locking the adjustable blades in position.

1,423,492. REGULATOR FOR VAPOR HEATING SYSTEMS. LESTER A. CHERRY, Kenmore, N. Y. Filed Feb. 1, 1918, Serial No. 214,848. Renewed Dec. 20, 1921. Serial No. 523,773. 6 Claims. (Cl. 236—31.)

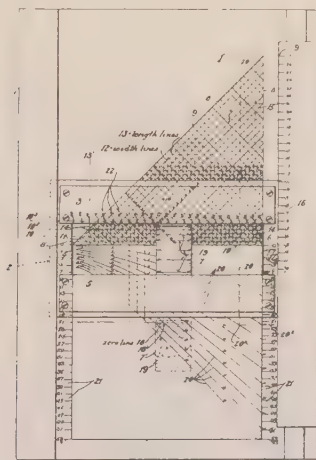
1. In a vapor heating system, the combination with a boiler, of a regulator connected with the boiler, means for conducting all the condensation of the system to and

through the regulator, means connected with the regulator and the dampers of the boiler for controlling the boiler



pressure, and means for maintaining definite levels of water within the regulator for any given steam pressure, independent of the height of the water within the boiler.

1,423,493. COMPUTING DEVICE. JOHN G. CLARK, Holyoke, Mass. Filed Nov. 4, 1919, Serial No. 335,615. Renewed May 2, 1922. Serial No. 558,039. 7 Claims. (Cl. 235—89.)



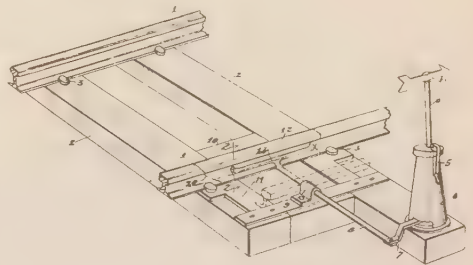
1. In a computing device of the kind described, the combination, a base-piece having thereon intersecting lines for forming rectangular shaped figures, curves on the base-piece and reference numerals thereon, a slide movable on the base-piece and over the figures, a movable piece carried by the slide and adapted to move transversely of the figures and having a zero line thereon which is designed to cooperate with the points of intersection of the said lines, said base-piece having numerals placed on the sides of the rectangular shaped figures and other numerals at the side of the curves, and with both of which the movable piece cooperates, said movable piece having correction lines which cooperate with the curves for determining the final result with reference to the numerals that are placed at the sides of the base-piece.

1,423,494. PROCESS FOR THE PREPARATION OF AROMATIC NITRAMINES. LOUIS HAAS, Paris, France, assignor to The Société Chimique De La Grande Parissse, Paris, France. Filed Sept. 2, 1921. Serial No. 498,088. 2 Claims. (Cl. 260—128.)

2. A method of carrying out the process claimed in claim 1, consisting in introducing the chloronitro-derivative into acetic acid saturated with gaseous ammonia,

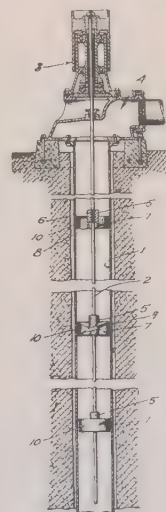
maintaining a temperature of approximately 125°–130° C. and continuing to pass gaseous ammonia through so that the ammonium acetate is continuously regenerated.

1,423,495. DERAILER. JOHN H. HAMMONTRE, Los Angeles, Calif. Filed Jan. 3, 1921. Serial No. 434,623. 5 Claims. (Cl. 246—163.)



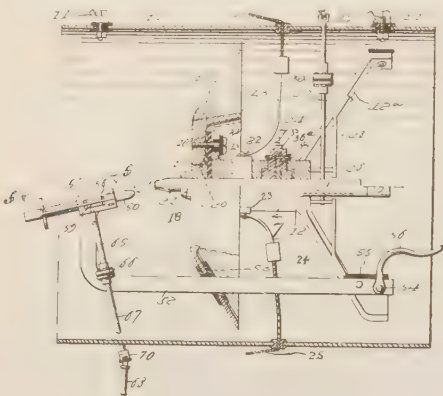
1. A derail for a track including actuating mechanism for the same and a section of a track rail removable by said actuating means to cause the wheel of a car upon said track to drop from the rail, the joint between said rail proper and removable section forming an inclined end for the rail proper.

1,423,496. PUMP. LEWIS H. HANEY, Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,328. 4 Claims. (Cl. 253—179.)



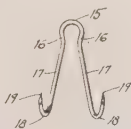
1. The combination with a liquid impelling device including a rotatable impeller having a spiral blade provided with a radial port communicating with the bore of said impeller so as to discharge a portion of the liquid between the periphery of said impeller and its casing to form a fluid bearing.

1,423,497. ELECTRIC-ARC MECHANISM FOR SEARCHLIGHTS. LYMAN C. JOSEPHS, Jr., U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed June 9, 1919. Serial No. 302,980. 6 Claims. (Cl. 176—51.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



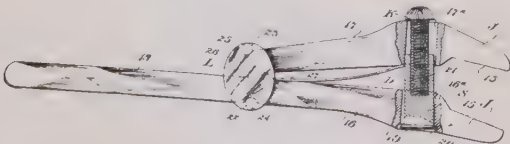
6. In a high intensity arc mechanism the combination with positive and negative electrodes, a slotted shield surrounding the positive electrode and a housing inclosing the shield; of means for directing the arc flame through the slot of said shield.

1,423,498. NECKTIE HOLDER. PETER KLINKHAMMER, Los Angeles, Calif. Filed Dec. 3, 1921. Serial No. 519,722. 1 Claim. (Cl. 24—60.)



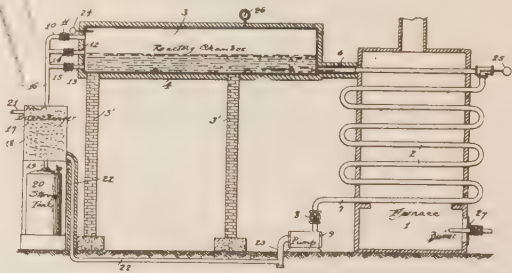
A necktie holder formed from a single length of resilient wire bent to provide a yoke adapted to embrace the shank of a collar button, said yoke having a restricted mouth, linear portions extending from the ends of the yoke and arranged in divergent relation with respect to each other, and hooks having upwardly extending prongs formed on the terminals of said portions and terminating at points below said mouth, said prongs being arranged in a plane disposed at an angle with respect to the plane of the linear portions.

1,423,499. WRENCH. JOE S. MCKIBBON, Los Angeles, Calif. Filed Feb. 9, 1922. Serial No. 535,210. 7 Claims. (Cl. 81—118.)



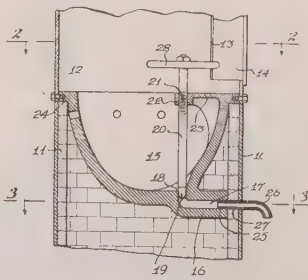
1. A wrench comprising a stationary jaw, a movable jaw associated with the stationary jaw to occupy a retracted position in which the faces of the jaws are disposed in converging relation to each other, and a projected position in which said faces are disposed in spaced parallelism, means for automatically opening the jaws, and adjustable means for limiting the opening action.

1,423,500. PROCESS OF TREATING PETROLEUM OIL. ROY CROSS, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y., a Corporation of New York. Continuation of application Serial No. 211,407, filed Jan. 11, 1918. This application filed May 2, 1921. Serial No. 466,119. 15 Claims. (Cl. 196—25.)



2. A continuous process of treating oils under pressure without substantial distillation, consisting in passing the oil in a relatively small stream through a heating zone where the oil is heated to a cracking temperature, in discharging the oil from the heating zone in a substantially liquid phase and at a cracking temperature to an enlarged insulated reacting chamber located outside of the heating zone where further cracking takes place, maintaining the oil in both the enlarged insulated reacting chamber and the heating zone under pressure of evolved gases of the oil having a critical temperature below the cracking temperature of the bulk of the oil, said pressure being always sufficient to prevent any substantial vaporization of the oil, and in continuously removing the bulk of the oil in liquid phase and said pressure gases from said reacting chamber.

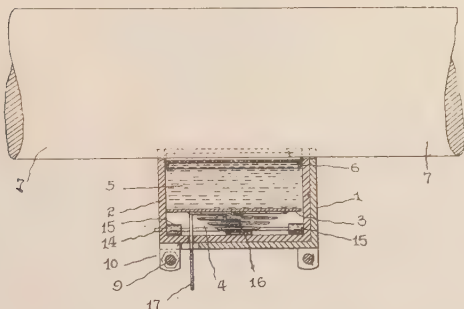
1,423,501. MELTING POT. JOHN B. MCCLAIN, Brooklyn, N. Y., assignor of one-fifth to Richard Meier, Brooklyn, N. Y. Filed Oct. 25, 1920. Serial No. 419,395. 2 Claims. (Cl. 263—11.)



1. The combination with a furnace having upper and lower compartments, the latter of reduced cross sectional dimension to provide a horizontal shoulder, said lower compartment having an opening in one of its side walls, of a melting pot of parabolical formation having an outwardly extending peripheral flange at its upper end adapted to engage said shoulder for supporting the melting pot within the lower compartment, a downwardly and laterally directed integral spout extending from the bottom of said melting pot and affording a space thereabove for the free circulation of heat thereabout for heating the outlet nozzle on all sides and allowing the portion of the bowl lying above the outlet nozzle to be subjected to the heat, said nozzle being provided with a central bore communicating with the interior of the melting pot and having its outer end in vertical alignment with the side of the pot and with its bore disposed in a horizontal plane with the opening in the side wall, a detachable nozzle adapted to be received by the outer end of the spout and insertable through the opening in

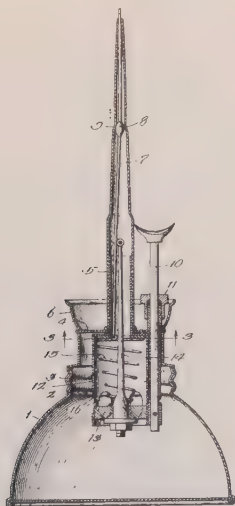
the side wall of the furnace, and means located within the bowl for closing the inner end of the bore of the nozzle having a manipulating device extending above the bowl for actuating the closure.

1,423,502. GREASE CELLAR. WILLIAM FRANCIS MITCHELL, Clifton, N. J., assignor of one-half to Frank R. Allen, Passaic, N. J. Filed June 26, 1920. Serial No. 391,950. 3 Claims. (Cl. 64—35.)



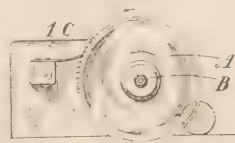
1. In a device of the character described, the combination of an open front case having a bottom and side walls, a closed box therein resting on the bottom of the case having an open top and adapted to contain a cake of lubricant and means for securing the box in the case, substantially as shown and described.

1,423,503. OIL CAN. ELDRIDGE H. NOBLE, Waukegan, Ill.; William J. Smith, administrator of said Eldridge H. Noble, deceased. Filed Nov. 17, 1919. Serial No. 338,676. 2 Claims. (Cl. 221—45.)



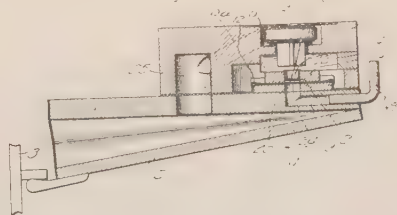
1. A can having a discharge spout; a stopper within the bore of the spout; mechanism accessible for operation upon the exterior of the can and in operating connection with the stopper upon the interior of the can; a pump barrel to which the stopper is attached and moving with the stopper, the aforesaid mechanism being in actuating relation to this pump barrel; a piston within the pump barrel and substantially fixed with respect to the can; and a spring between the piston and the outer end of the pump barrel normally to place the pump barrel in its outer position and to apply the stopper to the spout, there being communication between the pump barrel and the can interior when the pump barrel is in its outer position.

1,423,504. SAW FOR CUTTING METALS. PERCY VENABLES VERNON, Keresley, England. Filed Oct. 30, 1919. Serial No. 334,505. 6 Claims. (Cl. 29—69.)



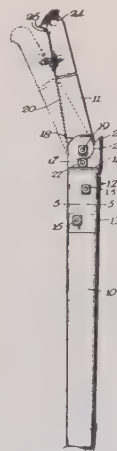
1. The combination of a saw having teeth and a device adapted to enter the spaces between the said teeth and to traverse the cutting faces thereof.

1,423,505. PNEUMATIC ACTION FOR PLAYER PIANOS AND THE LIKE. ADOLPH P. GUSTAFSON, Chicago, Ill., assignor to M. Schulz Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1919. Serial No. 280,120. 19 Claims. (Cl. 84—53.)



17. The combination of a pneumatic and a block mounted on the fixed member of said pneumatic, a pouch mounted on said block, and a second block mounted on said pouch, said second mentioned block being provided with a thimble forming a bleed port and said pouch also being provided with a bleed port, and said fixed member of said pneumatic being provided with a duct adapted for connection with a tracker board tube and extending to said pouch.

1,423,506. PRUNING SAW. AARON SLOTHOWER, Warren, Oreg. Filed June 23, 1920. Serial No. 391,238. 7 Claims. (Cl. 30—11.)



1. A pruning saw comprising a handle of flat substantially oval cross section, said handle being of rectilinear formation, a socket mounted on one end of the handle, said socket comprising a section of sheet metal bent upon itself to envelop the handle, fastening means passed

through the handle and socket sides, said sides being disposed inwardly toward each other beyond the free end of the handle and having a notch at the free end thereof and forming a spur at the bight portion forming the back of the socket and handle, and a blade carried between said side portions.

REISSUES.

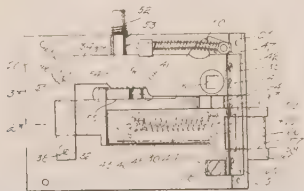
15,411. TREATMENT FOR VENEREAL DISEASES.

WILLIAM E. CRAIG, Joplin, Mo., assignor, by mesne assignments, to Craig Chemical Corporation, Cleveland, Ohio, a Corporation of Delaware. Filed Mar. 3, 1922. Serial No. 540,897. Original No. 1,408,170, dated Feb. 28, 1922, Serial No. 265,356, filed Dec. 5, 1918. 13 Claims. (Cl. 167—7.)

11. A remedy for internal use for venereal diseases comprising the product incident to the admixture of mercury, opium, quinine, and licorice, the said several ingredients being in substantially the quantity and bearing that relative proportion to each other fixed by the limits of the therapeutical action required substantially as described.

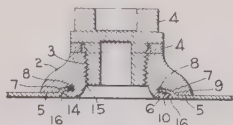
15,412. FASTENING DEVICE. LEON OTTINGER, New York, N. Y. Filed July 19, 1921. Serial No. 485,991.

Original No. 1,312,199, dated Aug. 5, 1919, Serial No. 226,411, filed Apr. 3, 1918. 25 Claims. (Cl. 292—192.)



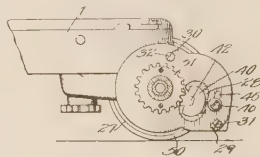
1. In a latch, a latching member adapted to be projected and retracted, a strike, and means adapted to expand the latching member in its transverse dimension during projection including a part carried by the latching member and co-acting with the strike, and means cooperating with said part to move the same into operative engagement with the strike and preventing return movement of said part to its normal position and permitting of such return movement only upon a retraction movement initially applied to said latching member.

15,413. SPUT FOR METALLIC RECEPTACLES. HENRY S. REYNOLDS, Brooklyn, N. Y., assignor to Meurer Steel Barrel Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 7, 1921. Serial No. 443,308. Original No. 1,332,686, dated Mar. 2, 1920, Serial No. 271,484, filed Jan. 16, 1919. 10 Claims. (Cl. 220—39.)



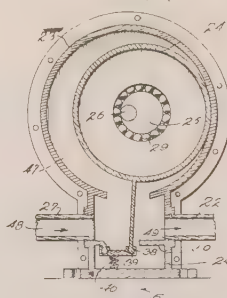
10. A metallic receptacle having an opening therein, and a sput fitted within said opening and provided with a recess offset with respect to the plane of the adjacent portion of the receptacle and with a bendable flange, the edge portions of said receptacle being forced into said offset recess and into engagement with interlocking irregularities formed on the sput, and said flange on said sput being bent to grip said edge portion within said recess and hold it in said interlocking relation.

15,414. SUCTION CARPET SWEEPER. JAMES M. SPANGLER, deceased, late of Canton, Ohio, by The Hoover Suction Sweeper Company, New Berlin, Ohio, a Corporation of Ohio, assignee. Filed June 22, 1917. Serial No. 176,445. Original No. 1,151,731, dated Aug. 31, 1915, Serial No. 733,988, filed Nov. 29, 1912. 23 Claims. (Cl. 15—8.)



10. The combination with a suction-cleaner hood of a brush and a brush support comprising a carrying plate mounted on the hood and means for holding the carrying plate in a predetermined position on the hood, and an adjusting plate pivoted to the carrying plate, the adjusting plate being provided with means whereby it may be locked in varying positions on the carrying plate and with a brush bearing.

15,415. PUMP MECHANISM. ELMER B. THOMPSON, Des Moines, Iowa, assignor to Thompson Manufacturing Company, Des Moines, Iowa. Filed Jan. 16, 1922. Serial No. 529,781. Original No. 1,156,724, dated Oct. 12, 1915, Serial No. 842,712, filed June 3, 1914. 3 Claims. (Cl. 230—30.)



1. A pump comprising a stationary outer cylinder, a hollow support therefor communicating with the same and having intake and exhaust ports, an eccentrically movable inner cylinder within the said outer cylinder for contact at one point in its periphery with the wall of the latter, a wing at the periphery of the inner cylinder and extended into the hollow support, a plate flexibly connecting the wing with one wall of the support below one of the ports to shut off communication between the spaces at the opposite sides of the said wing within the cylinder and support, and counterbalancing means for the plate and inner cylinder.

15,416. BOOT TOP. CHARLES TWEDDIE, Jefferson City, Mo. Filed May 20, 1922. Serial No. 562,538. Original No. 1,153,977, dated Sept. 21, 1915, Serial No. 876,404, filed Dec. 10, 1914. 8 Claims. (Cl. 36—2.)

1. A boot-top to be worn over a low shoe, said boot-top having full length quarters following the general lines of the upper portion of a high boot, the lower edges of said boot-top being arranged to coincide with the edges of the sole of the shoe around the heel and along the sides of the shank, and the front and back lower portions of said boot-top being sprung in a sufficient amount to make the lower edges of such portions closely hug the shoe.

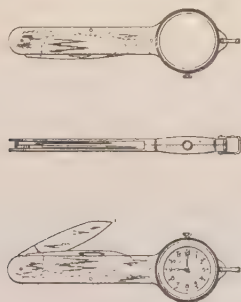
and a strap connecting the lower side edges of the boot-top, said strap being arranged to lie beneath and fit the



shank of the shoe from the breast of the heel to the points where the lower edges of the boot-top intersect the edges of the sole.

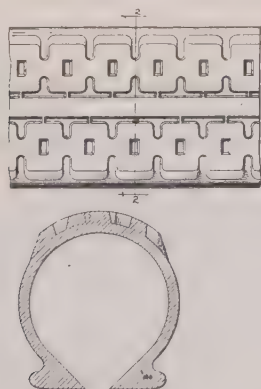
DESIGNS.

61,220. COMBINATION WATCH AND KNIFE. WILLIAM OCHSE, San Antonio, Tex. Filed Dec. 27, 1921. Serial No. 525,250. Term of patent 14 years.



The ornamental design for a combination watch and knife, or article of similar nature; substantially as shown.

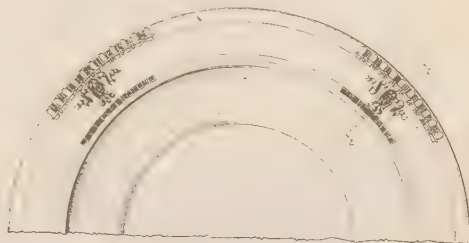
61,221. TIRE. WILLIAM CARNAL, Akron, Ohio, assignor to The Carey Tire & Rubber Company, Carey, Ohio, a Corporation of Ohio. Filed Sept. 8, 1920. Serial No. 409,004. Term of patent 14 years.



The ornamental design for a tire as shown.

300 O. G.—36

61,222. DISH, PLATE, OR SIMILAR ARTICLE. GILBERT L. CROWELL, Jr., Arlington, N. J., assignor to Dominick & Huff, New York, N. Y., a Joint-Stock Company, New York, N. Y. Filed Oct. 22, 1921. Serial No. 509,744. Term of patent 7 years.



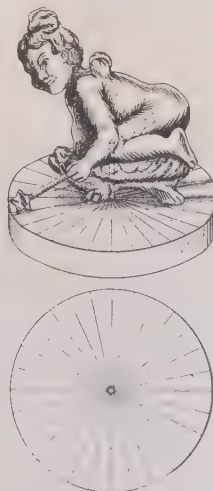
The ornamental design for a dish, plate, or similar article, as shown.

61,223. LACE. JOHN DRAYCOTT, Pawtucket, R. I. Filed Jan. 11, 1922. Serial No. 164. Term of patent 3½ years.



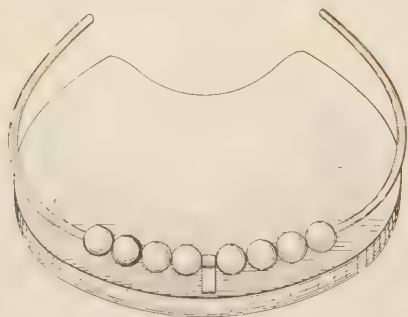
The ornamental design for a lace as shown.

61,224. TOY. MINGA POPE DURYEA and CORINNE INGRAM. New York, N. Y. Filed Dec. 13, 1920. Serial No. 430,589. Term of patent 3½ years.



The ornamental design for a toy as shown.

61,225. TRAY. JOSEPH GANNON, Walton, N. Y., assignor to Steinfeld Bros., New York, N. Y. Filed Feb. 8, 1921. Serial No. 443,477. Term of patent 14 years.



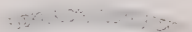
The ornamental design for a tray as shown and described.

61,226. STANDARD FOR LIGHTING FIXTURES. JOSEPH W. GOSLING, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 12, 1921. Serial No. 500,216. Term of patent 14 years.



The ornamental design for a standard for lighting fixtures as shown.

61,227. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,643. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,228. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,645. Term of patent 7 years.



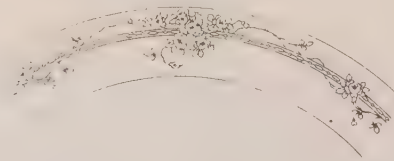
The ornamental design for a plate or similar article, as shown.

61,229. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,646. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,230. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,647. Term of patent 7 years.



The ornamental design for a plate or similar article as shown.

61,231. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,648. Term of patent 7 years.



The ornamental design for a plate or similar article as shown.

61,232. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,649. Term of patent 7 years.



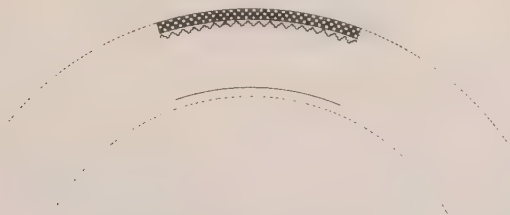
The ornamental design for a plate or similar article, as shown.

61,233. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,650. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,234. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,651. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,235. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,653. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,236. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,652. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,237. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,654. Term of patent 7 years.



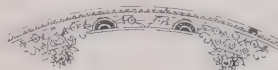
The ornamental design for a plate or similar article, as shown.

61,238. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,655. Term of patent 7 years.



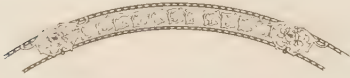
The ornamental design for a plate or similar article, as shown.

61,239. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,656. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

61,240. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,657. Term of patent 7 years.



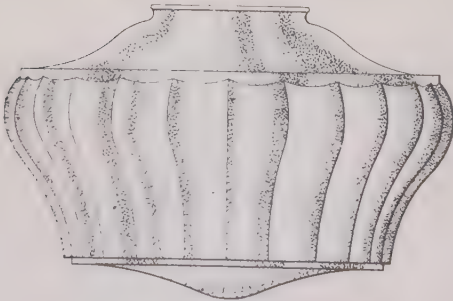
The ornamental design for a plate or similar article, as shown.

61,241. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Nov. 3, 1921. Serial No. 512,658. Term of patent 7 years.



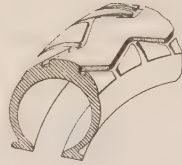
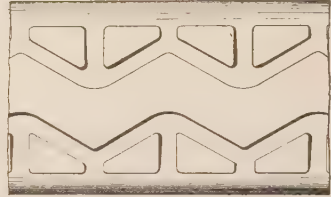
The ornamental design for a plate or similar article, as shown.

61,242. LAMP SHADE, GLOBE, OR SIMILAR ARTICLE. HARRISON D. McFADDIN, East Orange, N. J. Filed Sept. 9, 1921. Serial No. 499,570. Term of patent 3½ years.



The ornamental design for a lamp shade, globe or similar article, as shown.

61,243. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,661. Term of patent 14 years.



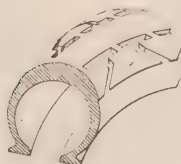
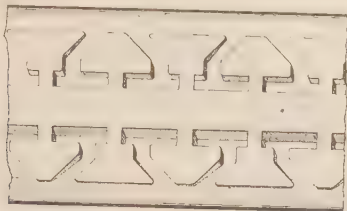
The ornamental design for a tire tread substantially as shown.

61,244. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,662. Term of patent 14 years.



The ornamental design for a tire tread substantially as shown.

61,245. TIRE TREAD. HAROLD D. MITCHELL, Brooklyn, N. Y., assignor to C. Kenyon Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,664. Term of patent 14 years.



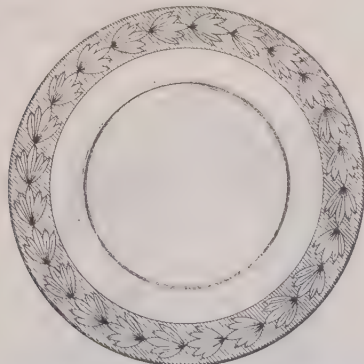
The ornamental design for a tire tread substantially as shown.

61,246. LACE. HANS ALBERT PHILIPS, Stratford, Conn., assignor to The American Fabrics Company, a Corporation of Connecticut. Filed Feb. 3, 1922. Serial No. 513. Term of patent 7 years.



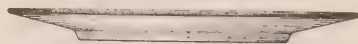
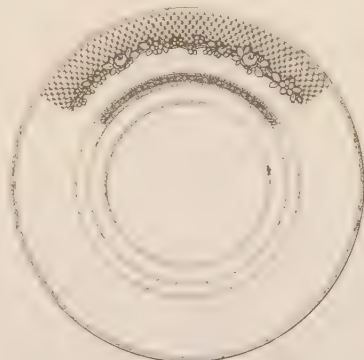
The ornamental design for lace substantially as shown.

61,247. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,095. Term of patent 7 years.



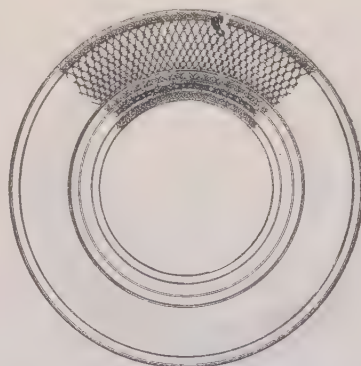
The ornamental design for a glass dish, substantially as shown.

61,248. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,096. Term of patent 7 years.



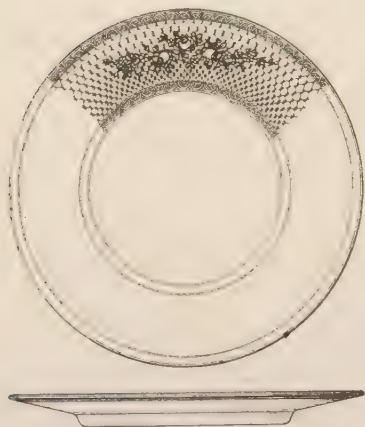
The ornamental design for a glass dish, substantially as shown.

61,249. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,097. Term of patent 7 years.



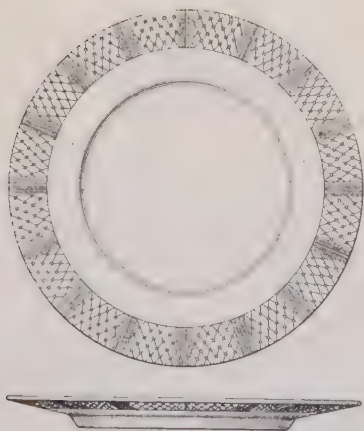
The ornamental design for a glass dish, substantially as shown.

61,250. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,098. Term of patent 7 years.



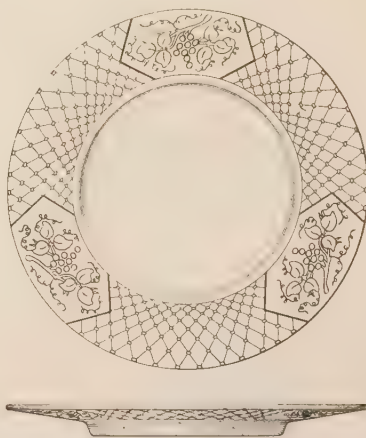
The ornamental design for a glass dish, substantially as shown.

61,251. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,099. Term of patent 7 years.



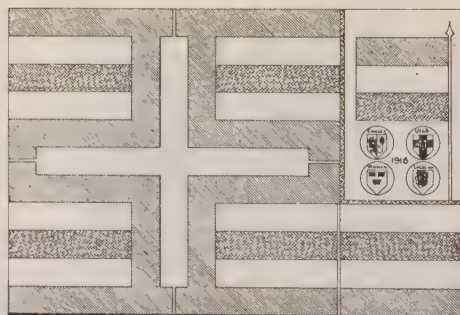
The ornamental design for a glass dish, substantially as shown.

61,252. GLASS DISH. CHARLES L. REIZENSTEIN, Pittsburgh, Pa. Filed Nov. 1, 1921. Serial No. 512,100. Term of patent 7 years.



The ornamental design for a glass dish, substantially as shown.

61,253. FLAG FOR IRELAND. PATRICK D. RIORDAN, New York, N. Y. Filed July 5, 1921. Serial No. 482,605. Term of patent 14 years.



The ornamental design for a flag for Ireland as shown.

61,254. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,721. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

61,255. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,722. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

61,256. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,723. Term of patent 7 years.



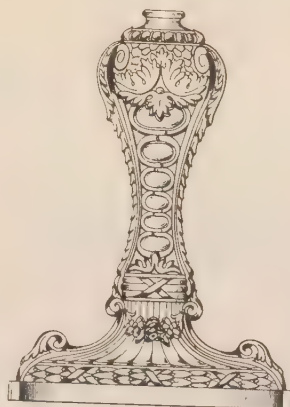
The ornamental design for a shade for lighting fixtures, as shown.

61,257. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,724. Term of patent 7 years.



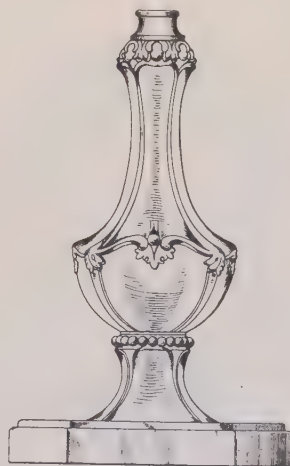
The ornamental design for a shade for lighting fixtures, as shown.

61,258. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,727. Term of patent 7 years.



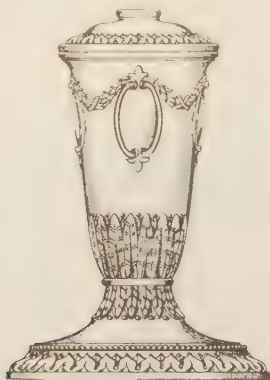
The ornamental design for a pedestal for lighting fixtures, as shown.

61,259. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,728. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,260. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,729. Term of patent 7 years.



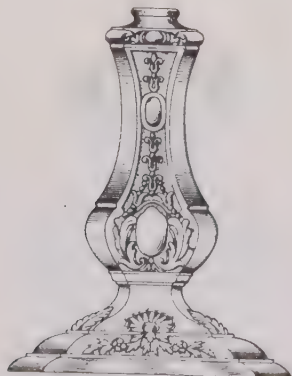
The ornamental design for a pedestal for lighting fixtures, as shown.

61,261. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,730. Term of patent 7 years.



The ornamental design for a pedestal for lighting fixtures, as shown.

61,262. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Oct. 22, 1921. Serial No. 509,731. Term of patent 7 years.



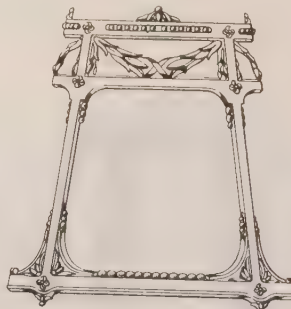
The ornamental design for a pedestal for lighting fixtures, as shown.

61,263. PEDESTAL FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Nov. 8, 1921. Serial No. 513,821. Term of patent 7 years.



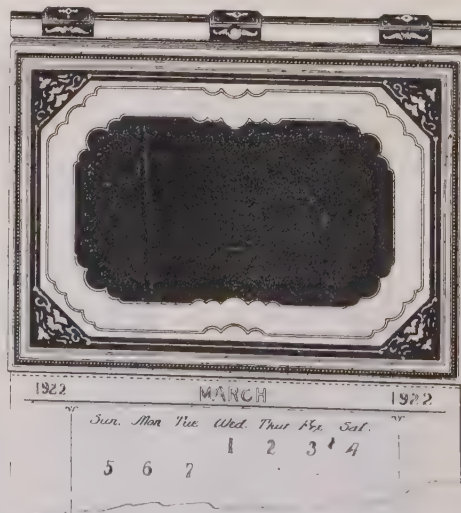
The ornamental design for a pedestal for lighting fixtures, as shown.

61,264. SHADE FOR LIGHTING FIXTURES. FREDERICK ROETTGES, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y., a Copartnership. Filed Nov. 8, 1921. Serial No. 513,822. Term of patent 7 years.



The ornamental design for a shade for lighting fixtures, as shown.

61,265. CALENDAR MOUNTING. DONALD MITCHELL WESTON, Dalton, Mass., assignor to Byron Weston Company, Dalton, Mass., a Corporation of Massachusetts. Filed Apr. 7, 1922. Serial No. 1,630. Term of patent 14 years.



The ornamental design for a calendar mounting, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 18, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 113,560. (CLASS 12. CONSTRUCTION MATERIALS.) GEO. S. GOOD FIRE BRICK CO., Patton, Pa. Filed Oct. 3, 1918.

WOODISON-STEEL

Particular description of goods.—Fire Bricks and Paving Blocks.

Claims use since May, 1911.

Ser. No. 122,018. (CLASS 37. PAPER AND STATIONERY.) MICHAEL MILTON, doing business as Milton Paper Company, New York, N. Y. Filed Aug. 26, 1919.

CROMWELL BOND

No claim to the use of word "Bond." "Cromwell" is the name of a celebrity—namely, Oliver Cromwell.

Particular description of goods.—Writing Paper.

Claims use since July 19, 1919.

Ser. No. 123,657. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NATIONAL METAL WARE CO., INC., Brooklyn, N. Y. Filed Oct. 10, 1919.



Particular description of goods.—Kitchen Utensils of Aluminum, Consisting of Dairy Pans, Cake and Pie Plates, Pudding Pans, Washbasins, Saucepans, Rice Boilers, Kettles, Dish Pans, and Drinking Cups.

Claims use since June 1, 1919.

Ser. No. 128,555. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MARION FOUNDRY CORPORATION, Marion, Ind. Filed Feb. 18, 1920.

CLEAR - CUT

Trade-mark is cast with the article and consists of the shape and style of the letters shown on drawing.

Particular description of goods.—Solid-Fuel Furnaces, Grate Frames, Grate Bars, Grate-Bar Levers, and Locks for Grate Bars.

Claims use since Mar. 24, 1919.

Ser. No. 129,451. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER A. DE LAPORTE, doing business as The D. & M. Healing Salve Co., Lodi, Calif. Filed Mar. 9, 1920.



The portrait is that of applicant.

Particular description of goods.—Salve for the Treatment of Eczema, Itchings, Burns, and Cuts.

Claims use since June 1, 1920.

Ser. No. 129,479. (CLASS 25. LOCKS AND SAFES.)
STRONGHART COMPANY, Chicago, Ill. Filed Mar. 9,
1920.



Particular description of goods.—Small Portable Savings Banks and Safes.

Claims use since about Jan. 1, 1914.

Ser. No. 130,819. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALBERT C. FISCHER, doing business as Serviced Products Company, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made to words "Look for it on all purchases."

Particular description of goods.—Roofing Paints, Barn Paints, Cold-Water, Oil, Metal, and Dampproofing Paints.

Claims use since Feb. 1, 1916.

Ser. No. 134,058. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CADILLAC PHONOGRAPH CORPORATION, Chicago, Ill. Filed June 23, 1920.



Particular description of goods.—Phonographs and Tone Arms, Sound Boxes, Horns, and Amplifiers for Talking Machines and Phonographs.

Claims use since Apr. 1, 1920.

Ser. No. 137,269. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE RELIANCE GAUGE COLUMN COMPANY, Cleveland, Ohio. Filed Sept. 16, 1920. Under ten-year proviso.

RELIANCE

Particular description of goods.—Steam-Boiler Fittings and Furnishings, Comprising Gauge Cocks, Steam Traps, Floats, and Alarm Devices for Use in Connection with the Foregoing.

Claims use since prior to 1886.

Ser. No. 138,651. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) PIONEER INSTRUMENT COMPANY, Brooklyn, N. Y. Filed Oct. 21, 1920.

PIONEER

Trade-mark "Pioneer."

Particular description of goods.—Compasses, Banking Indicators, Turn Indicators, Pitching Indicators, Air-Speed Indicators, Air-Distance Recorders, Pitot Tubes, Venturi Tubes, Altimeters, Aerial Cameras, Rate-of-Climb Indicators, Vertimeters, Gasoline Gauges; Manometers, Indicating and Recording; Bomb Sights, Drift Indicators, Tachometers, Statoscopes, Inclometers, Depth Indicators, Ships' Logs, Course and Distance Indicators.

Claims use since Mar. 1, 1919.

Ser. No. 139,722. (CLASS 12. CONSTRUCTION MATERIALS.) STASO LAMINATED SLATE COMPANY, Chicago, Ill. Filed Nov. 16, 1920.



No claim is made to exclusive use of words "Cannot Fade," "Resists Fire," "Resists Weather," and "Non-Fading Slate Roof Surface" or representation of the goods except when associated with the words "Sta-So" in the arrangement shown.

Particular description of goods.—Crushed Slate for Use as a Surfacing Grit for Prepared Roofings.

Claims use since Sept. 1, 1919.

Ser. No. 139,765. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1920. Under ten-year proviso.

ADAMS

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping and Toilet Use.

Claims use since on or about Jan. 1, 1841.

Ser. No. 139,830. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

PIUTE

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing and Sweeping.

Claims use since on or about Jan. 1, 1908.

Ser. No. 139,833. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 18, 1920.

TRUMPET

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing and Sweeping.

Claims use since on or about Jan. 1, 1900.

Ser. No. 140,085. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ANGEL VELO Y FILGUEIRA, Habana, Cuba. Filed Nov. 24, 1920.



No claim to exclusive use of words "Agua Mineral San Francisco" appearing in upper portion of margin or to "Cuba" apart from mark shown.

Particular description of goods.—Mineral Water.

Claims use since Jan. 1, 1917.

Ser. No. 140,420. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOHN L. WHITING-J. J. ADAMS COMPANY, Boston, Mass., assignor to John L. Whiting-J. J. Adams Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 29, 1920. Under ten-year proviso.

CAR & PANEL

Particular description of goods.—Brushes for Painting, Varnishing, or Applying Various Liquids and for Cleaning, Polishing, and Sweeping.

Claims use since on or about Nov. 1, 1884.

Ser. No. 141,302. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GENERAL STEEL PRODUCTS Co., Detroit, Mich. Filed Dec. 20, 1920.



Particular description of goods.—Bar Steel, Sheet Steel, Band Steel, and Steel Plates, None of Said Goods Being Adaptable for Use as Tool Steel.

Claims use since July 1, 1920.

Ser. No. 142,005. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) COMPAGNIE, INDUSTRIELLE ET COMMERCIALE DU CYCLE ET DE L'AUTOMOBILE, Neuilly-sur-Seine, France. Filed Jan. 10, 1921.

STROMBOS

Particular description of goods.—Mechanically-Operated Warning Devices—Namely, Horns, Hooters, Sirens, Bells, and Fog Signals—and Parts of Said Devices.

Claims use since Dec. 12, 1913.

Ser. No. 142,560. (CLASS 39. CLOTHING.) JONES BROS. GARMENT CO., Dubuque, Iowa. Filed Jan. 21, 1921.

SLEEPER

Particular description of goods.—Sleeping Garments.

Claims use since 1903.

Ser. No. 143,374. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MILLER AND PHIPPS (ASIA) LIMITED, New York, N. Y. Filed Feb. 9, 1921.

MOGUL

Particular description of goods.—Carriage Gongs.

Claims use since June 1, 1918.

Ser. No. 143,839. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STORM MANUFACTURING COMPANY, Minneapolis, Minn. Filed Feb. 19, 1921.

STORM

Particular description of goods.—Boring Tools and Machines, Reamers, Valve-Seating Tools, Milling Machines, Drill Presses, Burnishing Machines, Vises, and Jigs.

Claims use since on or about June 1, 1918.

Ser. No. 144,617. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ROLAND A. GSELL, New York, N. Y. Filed Mar. 11, 1921.

Lafayette

Particular description of goods.—Watches and Watch Movements, Watchcases, and Parts Thereof.

Claims use since July, 1920.

Ser. No. 146,654. (CLASS 11. INKS AND INKING MATERIALS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster's

Particular description of goods.—Inks—Namely, Black, Blue, Red, Purple, Fountain-Pen, and Green Writing Inks.

Claims use since December, 1913.

Ser. No. 146,734. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) ROGERS, LUNT & BOWLEN COMPANY, Greenfield, Mass. Filed Apr. 25, 1921.

Little Men and Little Women

Trade mark "Little Men and Little Women."

Particular description of goods.—Babies' and Children's Tableware—Namely, Knives, Forks, Spoons, Napkin Rings, Napkin Markers, Cups, Bowls, Dishes, Platters Servers, Trays, Mugs, Brushes, Combs, Mirrors, Baby Pins, Locketts, Baby Rattles, Whistles and Bells, All of Said Articles Being Made of or Ornamented with Sterling Silver, Silver Plate, Sheffield Plate, Gold and Gold Plate.

Claims use since January, 1917.

Ser. No. 147,086. (CLASS 12. CONSTRUCTION MATERIALS.) BECKMAN-DAWSON ROOFING CO., Chicago, Ill. Filed May 2, 1921.



No claim to exclusive right to use of words "Ready Roofing" and "Asphalt Shingles" or to the representation of the goods except when associated with word "Winthrop" in the arrangement shown

Particular description of goods.—Prepared Roofing and Asphalt Shingles.

Claims use since on or about Apr. 1, 1907.

Ser. No. 147,886. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) EDWIN HENRY MILLER, New York, N. Y. Filed May 18, 1921.

2-IN-1

Particular description of goods.—Clothespins.
Claims use since Jan. 1, 1921.

Ser. No. 148,269. (CLASS 12. CONSTRUCTION MATERIALS.) FIAT, Turin, Italy. Filed May 26, 1921.

FIAT

Particular description of goods.—Boards, Panels of Wood, Sheets, and Panels of Veneer, and Metal Reenforcing Bars.

Claims use since Oct. 14, 1919.

Ser. No. 148,270. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FIAT, Turin, Italy. Filed May 26, 1921.

FIAT

Particular description of goods.—Dynamos, Electromotors, Alternators and Parts Thereof, Converters, Transformers and Parts Thereof, Storage Batteries and Parts Thereof, Dry Batteries, Electric Locomotives, Switchboards, Switches, Commutators and Circuit Breakers, Rheostats and Starters, Fuses, Insulators, Electric Lamps, Telephone Apparatus, Telegraph Apparatus, Transmitters and Receivers for Wireless Signals, Electric Wires and Cables, Tanks and Electrodes for Electrochemistry, Electric Furnaces.

Claims use since Oct. 14, 1919.

Ser. No. 148,325. (CLASS 39. CLOTHING.) MELVIN FISHMAN, New York, N. Y. Filed May 27, 1921.



The word "Clothes" appearing on the drawing is hereby disclaimed as being a part thereof.

Particular description of goods.—Men's and Boys' Suits and Coats.

Claims use since March, 1921.

Ser. No. 148,509. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

SUPERCHROME

Trade-mark "Superchrome." Applicant disclaims any exclusive right to the word "Chrome" apart from mark shown.

Particular description of goods.—Dyes, Dyestuffs, and Colors.

Claims use since Feb. 19, 1918.

Ser. No. 149,278. (CLASS 39. CLOTHING.) A. FREEDMAN & SONS, Boston, Mass., assignors to A. Freedman & Sons, Incorporated, a Corporation of Massachusetts. Filed June 17, 1921.



No claim to use of words "The" and "Shoe" apart from mark shown.

Particular description of goods.—Boots and Shoes.

Claims use since Jan. 1, 1919.

Ser. No. 149,878. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALLACE & TIERNAN CO., INC., Newark, N. J. Filed June 30, 1921.

W&T

Particular description of goods.—Chlorine-Control Apparatus, Chemical-Control Equipment for Water Purification, Sewage-Treatment Apparatus, Textile and Paper Bleaching Apparatus, and Water and Sewage Sterilizing Apparatus.

Claims use since April, 1915.

Ser. No. 149,880. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALLACE & TIERNAN CO., INC., Newark, N. J. Filed June 30, 1921.

WATCO

Particular description of goods.—Chlorine-Control Apparatus, Chemical-Control Equipment for Water Purification, Sewage-Treatment Apparatus, Textile and Paper Bleaching Apparatus, and Water and Sewage Sterilizing Apparatus.

Claims use since June, 1918.

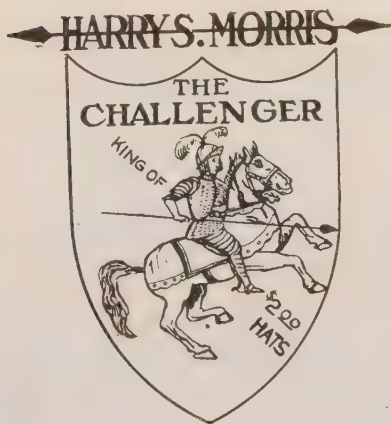
Ser. No. 150,072. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KENT STORAGE COMPANY, Grand Rapids, Mich. Filed July 6, 1921.

BLUE GRASS

Particular description of goods.—Condensed Milk and Butter.

Claims use since July 1, 1919.

Ser. No. 150,456. (CLASS 39. CLOTHING.) HARRY S. MORRIS, New York, N. Y. Filed July 16, 1921.



No claim is made to expression "King of \$2.00 Hats."

Particular description of goods.—Ladies' Hats.

Claims use since July 14, 1921.

Ser. No. 150,709. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SANDOW TOOL CO., U. S. A., New York, N. Y. Filed July 20, 1921.

SANDOW

Particular description of goods.—Metal Shoe Shanks.

Claims use since Mar. 1, 1921.

Ser. No. 151,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASCO DRUG COMPANY, doing business as Masco Laboratories, Boston, Mass. Filed July 30, 1921.



Particular description of goods.—Chemicals, Medicines, and Pharmaceutical Preparations—to wit, Boracic Acid, Powdered Alum, Oxalic Acid, Licorice Compound, Cream Tartar, Flaxseed Meal, Rochelle Salts, Sodium Bicarbonate, Sodium Phosphate, Sugar Milk, Sulphur, Senna Leaves, Senna Pods, Zinc Stearate, Throat Gargle, Cold Cream, Emulsified Gum Sirup, Red-Oil Liniment for Rheumatism, Kidney Pills, Hair-Color Restorer, Dr. Snow's Pedi Cerate Used for Corns and Calluses, Sirup Hypophosphites, Toothache Drops, Throat Tablets, Throat Spray, Emulsion Gummifera Compound, Acetyl-Sal, Liquid Bug Exterminator, Egyptian Henna Hair Shampoo, Antiseptics, Sulphur and Cream Tartar, Cough Sirup for Babies; Beef, Wine, and Iron NF; Bay Rum; Beef, Iron, and Wine Special; Eye Tonics, Corn Cure, Laxative Tablets, Liquid Laxatives; Fruit Sirup, a Medicinal Preparation Used as a Cure for Summer Complaints and Diarrhea; Aspirin-Cascara Tablets, Sirup of Figs, Mothine Compound for Moths and Bugs, Cedar Flakes, Cedar and Lavender Flakes, Moth Balls, Family Ammonia, Chloroform Liniment, Essence of Peppermint, Essence of Sweet Birch, Glycerin and Rose Water, Glycerin, Castor Oil, Camphorated Oil, Russian Petroleum Oil, Paregoric, Turpentine Spirits, Camphor Spirits, Sweet Spirits of Niter, Dobell's Solution, Hydrogen-Peroxide Solution, Larkspur Lotion for Head Wash, Witch Hazel, Sirup of Hydriotic Acid, Rhinitis Tablets, Foot Powder, Powdered Henna, Orris Root, Deodorizers, Fluid Extract Cascara, Insect Powder, Antiseptic Sprays; First-Aid Ointment, a Cure for Sores, Aches, and Pains; and Cough Sirups.

Claims use since Aug. 20, 1920.

Ser. No. 151,199. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. BODEK COMPANY, INCORPORATED, Philadelphia, Pa. Filed Aug. 1, 1921.

Trojan Mitts

Particular description of goods.—Ribbons; Cotton, Woolen, and Silk Goods All in the Piece.

Claims use since about 1908.

Ser. No. 151,879. (CLASS 39. CLOTHING.) LINDER
BROS., Scranton, Pa. Filed Aug. 17, 1921.

Shagmoor

Particular description of goods.—Ladies' Coats and
Suits for Outer Wear.

Claims use since June 1, 1921.

Ser. No. 152,528. (CLASS 39. CLOTHING.) THE H. S.
WEIL Co., Cleveland, Ohio. Filed Sept. 2, 1921.

WECO

Particular description of goods.—Aprons and House
Dresses.

Claims use since January, 1919.

Ser. No. 152,549. (CLASS 23. CUTLERY, MACHINERY,
AND TOOLS, AND PARTS THEREOF.) THE DEMING
COMPANY, Salem, Ohio. Filed Sept. 3, 1921.

ATLAS

Particular description of goods.—Pumps.

Claims use since September, 1913.

Ser. No. 152,934. (CLASS 42. KNITTED, NETTED,
AND TEXTILE FABRICS.) G. SIDENBERG & Co., New
York, N. Y. Filed Sept. 14, 1921.

INDIAN HEAD

Particular description of goods.—Laces in the Piece
and Nets in the Piece.

Claims use since 1863.

Ser. No. 152,954. (CLASS 6. CHEMICALS, MEDI-
CINES, AND PHARMACEUTICAL PREPARATIONS.)
CHEMISCHE FABRIK VON HEYDEN, AKTIENGESellschaft,
Radebeul, Germany. Filed Sept. 15, 1921.

Caseosan

Trade-mark, "Caseosan."

Particular description of goods.—Solutions for Paren-
teral Protein Therapeutics.

Claims use since about 1919.

Ser. No. 153,031. (CLASS 39. CLOTHING.) C. P.
BROWN MFG. Co., Des Moines, Iowa. Filed Sept. 17,
1921.

Secureall

Particular description of goods.—One-Piece Work Suits.
Claims use since 1913.

Ser. No. 153,032. (CLASS 39. CLOTHING.) C. P.
BROWN MFG. Co., Des Moines, Iowa. Filed Sept. 17,
1921.

Security

Particular description of goods.—Overalls, Coats, Pants,
Knickers, and Work Shirts.

Claims use since 1913.

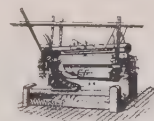
Ser. No. 153,494. (CLASS 6. CHEMICALS, MEDI-
CINES, AND PHARMACEUTICAL PREPARATIONS.)
WEST-LABORATORIUM GESELLSCHAFT MIT BESCHRÄNKTER
HAFTUNG, Hamburg-Billbrook, Germany. Filed Sept.
28, 1921.

Yatren

Particular description of goods.—Antiseptic Préparation
Whose Scientific Name is Jodsulfon-Ortho-Oxy-Benzol-
pyridin.

Claims use since June, 1913.

Ser. No. 153,967. (CLASS 42. KNITTED, NETTED,
AND TEXTILE FABRICS.) AIME BABOIN & CIE.,
Lyon, France. Filed Oct. 11, 1921.



"SPECIAL GOLD STAR FINISH"



Exclusive right to use of word "Finish" is disclaimed
apart from the other features of the mark. The repre-
sentation of the star is lined to indicate the color yellow
to signify gold.

Particular description of goods.—Silk Net Goods in the
Piece—Namely, Silk Nets, Malines, Illusions, Veilings,
Tulles, and Tissues.

Claims use since Mar. 1, 1920.

Ser. No. 154,286. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HERBERT S. RUSSELL, Pembroke, Mass. Filed Oct. 18, 1921.



Particular description of goods.—Phonograph-Record Discs.

Claims use since Aug. 1, 1920.

Ser. No. 154,401. (CLASS 39. CLOTHING.) TOLLY S. COHEN, doing business as R. Frost & Co., New York, N. Y. Filed Oct. 21, 1921.

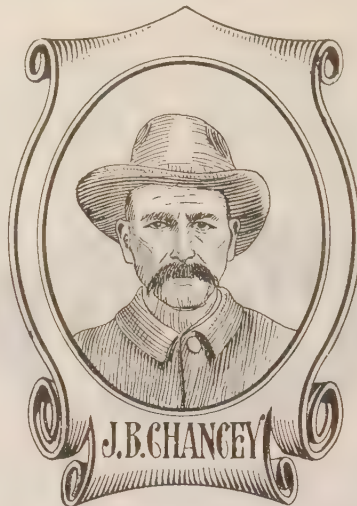


No claim is made to the word "Dresses" apart from the mark.

Particular description of goods.—Children's and Misses' Dresses.

Claims use since about February, 1921.

Ser. No. 154,435. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACKSON B. CHANCEY, Lake Butler, Fla. Filed Oct. 22, 1921.



The portrait shown in accompanying drawing is that of applicant.

Particular description of goods.—Preparation for Treatment of Piles, Leucorrhea, Burns, Eczema, Chafe, Cuts, Wounds, and Sores.

Claims use since 1909.

Ser. No. 154,612. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) NORMAN W. NUTT, Trenton, N. J. Filed Oct. 26, 1921.



Particular description of goods.—Electric-Light Sockets, Electric-Light Switches, Electric-Light Receptacles, Electric-Light Plugs, and Electric-Light Fixtures, or Electric-Light Globe-Receiving Apparatus.

Claims use since Oct. 10, 1921.

Ser. No. 155,003½. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RAY O. BARDON, Upper Sandusky, Ohio. Filed Nov. 3, 1921.

BARDON'S



ANTI-SLIPPING DEVICE

No claim made to representation of goods and the words "Anti-Slipping Device" apart from mark shown.
Particular description of goods.—Antislipping Attachments for Shoes.

Claims use since June 13, 1921.

Ser. No. 155,254. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COLUMBUS MANUFACTURING COMPANY, Columbus, Ga. Filed Nov. 10, 1921.



FLYING CLOUD

Particular description of goods.—Cotton Sheetings.
Claims use since May, 1913.

Ser. No. 155,276. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STACK HEATER COMPANY, Boston, Mass. Filed Nov. 10, 1921. Under ten-year proviso.

STACK

Particular description of goods.—Temperature-Controlled Valves, Relief Valves, Vacuum Valves, and Pipe Fittings.

Claims use since 1894.

300 O. G.—37

Ser. No. 155,357. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARMOLA COMPANY, Detroit, Mich. Filed Nov. 14, 1921.

Dilaxin

Particular description of goods.—Laxatives.
Claims use since spring of 1908.

Ser. No. 155,525. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE TELL-STOP APPLIANCE COMPANY, Cleveland, Ohio. Filed Nov. 17, 1921.

Tell  Stop

No claim is made to the word "Stop" or to the representation of the face of the signal except in association with the other features of the mark.

Particular description of goods.—Electric Stop and Direction Signal Lamp Systems for Vehicles.

Claims use since about the middle of April, 1921.

Ser. No. 155,582. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WASHBURN & GRANGER, INC., New York, N. Y. Filed Nov. 18, 1921.

DEAN

Particular description of goods.—Hoists.
Claims use since May 25, 1921.

Ser. No. 155,659. (CLASS 39. CLOTHING.) BELMONT HOSIERY COMPANY, Belmont, N. H. Filed Nov. 21, 1921.

Grace-Mae

Trade-mark "Grace-Mae."

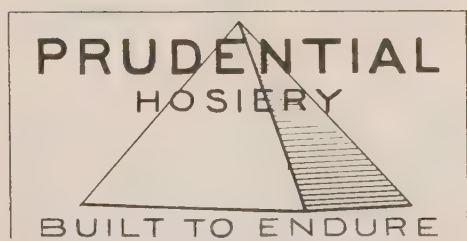
Particular description of goods.—Hosiery.
Claims use since September, 1921.

Ser. No. 155,821. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & Co. INC., New York, N. Y. Filed Nov. 23, 1921.

Silks de Luxe

No claim to word "Silks" apart from mark shown.
Particular description of goods.—Silk Piece Goods.
Claims use since June 1, 1916.

Ser. No. 155,895. (CLASS 39. CLOTHING.) JOHN C. LARKIN, New York, N. Y. Filed Nov. 25, 1921.



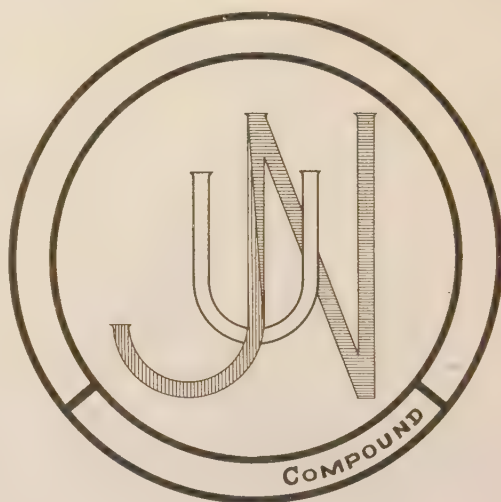
No claim to words "Hosiery Built to Endure."
Particular description of goods.—Hosiery.
Claims use since Nov. 18, 1921.

Ser. No. 156,156. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) GOLDE-PATENT MANUFACTURING CO., INC., New York, N. Y. Filed Dec. 1, 1921.



The lining on drawing does not denote color.
Particular description of goods.—Waterproofed Top and Seat Cover Cloth of a Textile Nature.
Claims use since about July 22, 1920.

Ser. No. 156,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDY KARAFFA, Johnstown, Pa. Filed Dec. 2, 1921.



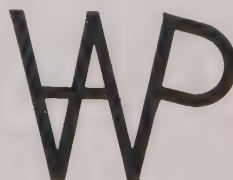
No claim is made to the word "Compound" apart from mark shown. The lining is for shading only.
Particular description of goods.—Medicine for Rheumatism for Internal and External Use.
Claims use since about Sept. 1, 1921.

Ser. No. 156,296. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROYAL EXTERMINATING PRODUCTS, INC., New York, N. Y. Filed Dec. 5, 1921.



Particular description of goods.—Insect Exterminators.
Claims use since about Dec. 1, 1920.

Ser. No. 156,320. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) HENRY WICHMANN, Brooklyn, N. Y. Filed Dec. 5, 1921.



Particular description of goods.—Plugs for Repairing Metal Bodies, Plates, Boilers, Tanks, Etc.
Claims use since July 1, 1921.

Ser. No. 156,357. (CLASS 39. CLOTHING.) CLADWELL DISTRIBUTING COMPANY, New York, N. Y. Filed Dec. 7, 1921.

Clad Well

Particular description of goods.—Knitted Sweaters.
Claims use since Nov. 28, 1921.

Ser. No. 156,392. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H. T. LANGE CO., Eau Claire, Wis. Filed Dec. 7, 1921.



RIVERSIDE

No claim being made to the word "Riverside" apart from the mark shown in drawing.

Particular description of goods.—Coffee.
Claims use since March, 1921.

Ser. No. 156,452. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LOGAN IRON & STEEL COMPANY, Philadelphia, Pa. Filed Dec. 8, 1921. Under ten-year proviso.

LOGAN

Particular description of goods.—Iron and Steel Bar Metal.

Claims use since end of year 1871.

Ser. No. 156,543. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK J. O'ROURKE, Whitestone, N. Y. Filed Dec. 10, 1921.

FRAJOR

Particular description of goods.—Medicines and Tonics or in Capsule Form for Treatment of Colds, Grippe, or

Malaria; Face Creams or Lotions for Chapped Rough Hands, Face, or Lips; Liniments for Relief of Rheumatism, Neuralgia, Swelling, Sprains, Bruises, Stiff Joints, and Chilblains.

Claims use since June 1, 1920.

Ser. No. 156,733. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed Dec. 15, 1921.

HUDSON

Particular description of goods.—Bleached, Unbleached, Dyed, Colored, and Printed Cotton Duck.

Claims use since June, 1906.

Ser. No. 156,759. (CLASS 39. CLOTHING.) SCULLY BROTHERS & CO., INC., New York, N. Y. Filed Dec. 15, 1921.



The words "New York" and representation of lady's hat are disclaimed apart from mark shown.

Particular description of goods.—Ladies' Trimmed Hats.
Claims use since November, 1919.

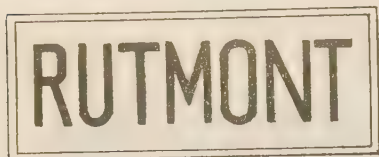
Ser. No. 156,767. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 15, 1921.



Particular description of goods.—Cotton Goods Not in the Piece—Namely, Table Covers, Handkerchiefs, Tablecloths, Tea Cloths, Doilies, Bed Covers, Curtains, Cushion Covers, and Serviettes.

Claims use since Mar. 23, 1920.

Ser. No. 156,786. (CLASS 39. CLOTHING.) FOWLER-NICOLET Co., INC., Rutland, Vt., and New York, N. Y. Filed Dec. 16, 1921.



Particular description of goods.—Men's Dress, Negligee, Flannel, and Sport Shirts and Boys' Negligee Shirts, Pyjamas, and Night Robes.

Claims use since Nov. 15, 1921.

Ser. No. 156,874. (CLASS 39. CLOTHING.) E. J. WILE & Co., New York, N. Y. Filed Dec. 17, 1921.

Worthwhile
All-Purpose

Trade-mark consists of the words "Worthwhile All-Purpose," no claim to exclusive use of hyphenated word "All-Purpose" apart from mark shown.

Particular description of goods.—Coats and Suits.

Claims use since March, 1921.

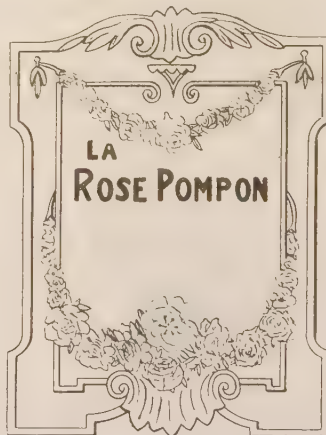
Ser. No. 156,938. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) UNION DROP FORGE COMPANY, Chicago, Ill. Filed Dec. 19, 1921.



Particular description of goods.—Drop Forgings.

Claims use since Jan. 1, 1895.

Ser. No. 156,953. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. BOURJOIS & Co. INC., New York, N. Y. Filed Dec. 20, 1921.



Particular description of goods.—Toilet Powder, Perfumes Sold as Extracts, Toilet Water and Lotions, Sachet Powder, and Sachets.

Claims use since Aug. 12, 1907.

Ser. No. 157,001. (CLASS 39. CLOTHING.) NELSCRAFT, INC., New York, N. Y. Filed Dec. 21, 1921.



An Institution Founded for Service

No claim to exclusive use of words "Creators of Tailored Waists" and "An Institution Founded for Service." The portrait is fanciful. Horizontal lining on medallion represents shading.

Particular description of goods.—Tailored Waists.

Claims use since Dec. 16, 1920.

Ser. No. 157,133. (CLASS 39. CLOTHING.) BAKER, JACOBS & COMPANY, Buffalo, N. Y. Filed Dec. 27, 1921.



No claim is made to exclusive use of the word "Ties."
Particular description of goods.—Neckties.
Claims use since Dec. 10, 1921.

Ser. No. 157,205. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ACKERMITE COMPANY OF AMERICA, Reno, Nev. Filed Dec. 28, 1921.

ACKERMITE

Particular description of goods.—Bearing Metal in Pig Form.
Claims use since Nov. 15, 1921.

Ser. No. 157,223. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) N. W. JORDAN, Hampton, Va. Filed Dec. 28, 1921.



No claim is made to the word "Salve" apart from mark shown. The drawing is lined for red.
Particular description of goods.—Medicine Used in the Treatment of Piles, Burns, and Itch.
Claims use since about Oct. 27, 1921.

Ser. No. 157,276. (CLASS 39. CLOTHING.) LADYFAIR HOSIERY AND UNDERWEAR CO. INC., New York, N. Y. Filed Dec. 29, 1921.

Ladyfair

Particular description of goods.—Women's Hosiery Made of Knitted and of Woven Fabrics and Underwear.
Claims use since June 1, 1919.

Ser. No. 157,379. (CLASS 27. HOROLOGICAL INSTRUMENTS.) JAMES F. MANSFIELD, New York, N. Y. Filed Dec. 31, 1921.

MANSFIELD "PARAMOUNT"

Particular description of goods.—Watches and Clocks.
Claims use since Oct. 1, 1921.

Ser. No. 157,409. (CLASS 39. CLOTHING.) COOPER, COATE & CASEY DRY GOODS Co., Los Angeles, Calif. Filed Jan. 3, 1922.

"Mariposa" Silk Gloves

No claim to words "Silk Gloves" apart from the mark.
Particular description of goods.—Silk Gloves.
Claims use since Nov. 2, 1921.

Ser. No. 157,419. (CLASS 11. INKS AND INKING MATERIALS.) THE FUCHS & LANG MANUFACTURING COMPANY, New York, N. Y., and East Rutherford, N. J. Filed Jan. 3, 1922. Under ten-year proviso.

COLUMBIA

Trade-mark consists of the word "Columbia."
Particular description of goods.—Printing and Lithographic Inks.
Claims use since May 1, 1890.

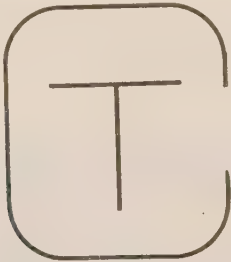
Ser. No. 157,462. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILSON UTENSIL COMPANY, Dayton, Ohio. Filed Jan. 3, 1922.

SILVER WEDDING

Particular description of goods—Aluminum Cooking Utensils—Namely, Preserving Kettles, Saucepans, Straight Kettles, Convex Kettles, Windsor Kettles, Double Boilers, Teakettles, Pudding Pans, Pie Pans, Cake Pans, Roasters, Coffee Percolators, Coffeepots, Teapots, Dish Pans, Skillets, Washbasins, Casseroles, Combination Steam Cookers, Combination Roasters and Kettles.

Claims use since Sept. 20, 1921.

Ser. No. 157,592. (CLASS 37. PAPER AND STATIONERY.) THE TRIBUNE COMPANY, Chicago, Ill. Filed Jan. 6, 1922.



Particular description of goods—Sheet Paper for Printing and Writing.

Claims use since Nov. 24, 1921.

Ser. No. 157,834. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL JONES GUNTER, doing business as Fulton Drug Co., Atlanta, Ga. Filed Jan. 12, 1922.

SULFUR-CARA

"The word "Sulfur" is not claimed except as a part of trade-mark shown.

Particular description of goods—Blood Purifier and Nerve Tonic.

Claims use since November, 1921.

Ser. No. 157,873. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN ABRASIVE METALS COMPANY, New York, N. Y. Filed Jan. 13, 1922.

FERROX

Particular description of goods—Bank-Vault Lining Plates of Composite Metal.

Claims use since Aug. 10, 1921.

Ser. No. 157,961. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Jan. 14, 1922.

NEOLAN

Particular description of goods—Coal-Tar Colors.

Claims use since Oct. 1, 1921.

Ser. No. 158,110. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BRIDGEPORT BRASS COMPANY, Bridgeport, Conn. Filed Jan. 19, 1922.



The words "It's Tested" are disclaimed apart from mark shown. The drawing is lined to show the seal as red.

Particular description of goods—Nonferrous Metals in the Form of Ingots, Billets, Slabs, Sheets, Wire, Rods, and Tube Blanks.

Claims use since on or about Oct. 1, 1921.

Ser. No. 158,183. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GOLDFARB & FRIEDBERG, INC., New York, N. Y. Filed Jan. 20, 1922.

"BLUITE 18K"

The term "18K" is disclaimed apart from the mark shown.

Particular description of goods—White Gold.

Claims use since Jan. 10, 1922.

Ser. No. 158,253. (CLASS 39. CLOTHING.) PERFECT GARMENT Co., Baltimore, Md. Filed Jan. 21, 1922.

DUO MIDDY

No claim made to the word "Middy" apart from mark shown.

Particular description of goods—Middy Blouses.

Claims use since Dec. 15, 1922.

Ser. No. 158,302. (CLASS 39. CLOTHING.) HATTIE FELS, New York, N. Y. Filed Jan. 23, 1922.



Particular description of goods—Clothing for Children to be Worn as an Outer Garment.

Claims use since about Nov. 15, 1921.

Ser. No. 158,354. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN BRASS COMPANY, Waterbury, Conn. Filed Jan. 24, 1922.

AMBAC

Particular description of goods.—Cast, Drawn, Rolled, Extruded, Pressed, and Machined Nonferrous Metals and Alloys and Ingots, Castings, Sheets, Rolls, Wire, Strips, Rods, and Tubes Made from Such Metals and Alloys.

Claims use since Sept. 8, 1921.

Ser. No. 158,418. (CLASS 39. CLOTHING.) JOHN DAVID, New York, N. Y. Filed Jan. 25, 1922.



Particular description of goods.—Men's Hats, Overcoats, Suits, Raincoats, Sweaters, Vests, Coats, Trousers, Knickerbockers, and Jackets.

Claims use since May 1, 1921.

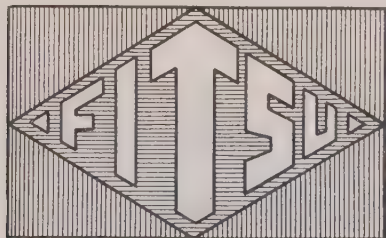
Ser. No. 158,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEB-UND FARBSTOFFWERKE H. RENNER & CO. ACTIEN-GESELLSCHAFT, Hamburg, Germany. Filed Jan. 26, 1922.

CARBATAN

Particular description of goods.—Solid and Liquid Tanning Extracts.

Claims use since 1914.

Ser. No. 158,619. (CLASS 39. CLOTHING.) KEET & ROUNTREE DRY GOODS COMPANY, Springfield, Mo. Filed Jan. 30, 1922.



The rectangular background of mark is indicated in red. The diamond-shaped center is shown as having a blue background. The lettering is white.

Particular description of goods.—Overalls, Work Shirts, Jumpers, Duck Coats, Khaki Coats, Corduroy Coats, Duck Pants, Khaki Pants, and Corduroy Pants.

Claims use since May 1, 1918.

Ser. No. 158,674. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FORD & MANION, INC., Wilmington, Del. Filed Jan. 31, 1922.



Particular description of goods.—Electric Heaters for Heating Liquids.

Claims use on or about Aug. 1, 1921.

Ser. No. 158,687. (CLASS 39. CLOTHING.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed Jan. 31, 1922.

Hillandale

Particular description of goods.—Men's Outer Shirts of Silk, Linen, Cotton, Mixtures of Silk and Linen and of Silk and Cotton.

Claims use since Jan. 24, 1922.

Ser. No. 158,876. (CLASS 39. CLOTHING.) LAWRENCEBURG OVERALL MFG. Co., Lawrenceburg, Ind. Filed Feb. 4, 1922.



Particular description of goods.—Overalls, Jackets, and Work Shirts.

Claims use since May, 1921.

Ser. No. 158,934. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILLER TRACTION TREAD COMPANY, Chicago, Ill. Filed Feb. 6, 1922.

TracTred

Particular description of goods.—Tractors and Parts Thereof.

Claims use since Nov. 1, 1921.

Ser. No. 159,116. (CLASS 39. CLOTHING.) THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y. Filed Feb. 9, 1922.

"SEAL-TEX"

Trade-mark, "Seal-Tex."

Particular description of goods.—Women's, Children's, and Infants' Coats, Cloaks, Wraps, Capes, Suits, Costumes, Dresses, Waists, Skirts, and Hats.

Claims use since Jan. 4, 1922.

Ser. No. 159,131. (CLASS 39. CLOTHING.) WASSERMAN & GOLDSMITH, New York, N. Y. Filed Feb. 9, 1922.



Particular description of goods.—Ladies', Men's, and Children's Hose; Ladies' and Children's Vests and Pants; Ladies', Men's, Girls', and Boys' Knitted Union Suits; Men's and Boys' Knitted Shirts and Drawers, Men's and Boys' Knitted Bathing Suits, Men's and Boys' Nainsook Shirts, Drawers, and Union Suits; Men's Dress and Work Shirts, Men's and Ladies' Sweaters; Men's, Ladies', Boys', and Girls' Knitted and Leather Gloves, and Men's and Boys' Khaki Pants.

Claims use since Dec. 1, 1914.

Ser. No. 159,148. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Feb. 10, 1922.



Particular description of goods.—Safety-Razor Blades.
Claims use since about the middle of 1906.

Ser. No. 159,163. (CLASS 39. CLOTHING.) THE MENTER CO. INC., New York, N. Y. Filed Feb. 10, 1922.



Particular description of goods.—Coats, Vests, Trousers, and Overcoats.

Claims use since Aug. 10, 1921.

Ser. No. 159,191. (CLASS 37. PAPER AND STATIONERY.) VAN DE CARR PAPER COMPANY, Stockport, N. Y. Filed Feb. 10, 1922.

CARDEVAN

Trade-mark. "Cardevan."

Particular description of goods.—Paper for Wrapping and Packing Purposes.

Claims use since June 20, 1921.

Ser. No. 159,218. (CLASS 39. CLOTHING.) THE PARSONS & BAKER Co., Phoenixville, Pa. Filed Feb. 11, 1922.



Criterion

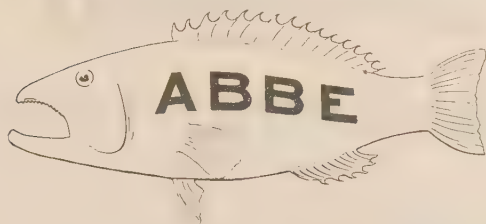
Particular description of goods.—Ladies' Underwear.
Claims use since August, 1921.

Ser. No. 159,222. (CLASS 37. PAPER AND STATIONERY.) MINNIE L. STOUGHTON, Camden, N. J. Filed Feb. 11, 1922.



Particular description of goods.—Book Covers.
Claims use since Jan. 23, 1922.

Ser. No. 159,239. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HANS ANDERSON, Oakland, Calif. Filed Feb. 13, 1922.



Particular description of goods.—Carpenters' Planes.
Claims use since Jan. 30, 1922.

Ser. No. 159,276. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WANDA MESSAGE, doing business as Massage Laboratory, Chicago, Ill. Filed Feb. 13, 1922.



Particular description of goods.—Medicinal Bath Compound for Skin Diseases and Rheumatic Pains.
Claims use since Jan. 27, 1922.

Ser. No. 159,307. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE Co., Newark, N. J. Filed Feb. 14, 1922.

YOUTHSWAY

Particular description of goods.—Brassières.
Claims use since Dec. 10, 1921.

Ser. No. 159,363. (CLASS 39. CLOTHING.) LOUISVILLE FURNISHING GOODS Co., Louisville, Ky. Filed Feb. 15, 1922.



Particular description of goods.—Boys' Overalls and Men's Work Shirts.
Claims use since Jan. 19, 1922.

Ser. No. 159,415. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DONALD N. GILPIN, doing business as The Kro-Ko Corporation, Baltimore, Md. Filed Feb. 16, 1922.



No claim is made to the use of the printed matter appearing on the drawing except the words "Kro Ko" apart from mark shown. The circle forming background for the printed matter comprising trade-mark is lined for red, indicating a red coloration in the display of this portion of the trade-mark.

Particular description of goods.—Insecticides.
Claims use since Jan. 21, 1922.

Ser. No. 159,456. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET Co., Detroit, Mich. Filed Feb. 17, 1922.

O. N. S.

Particular description of goods.—Corsets, Corset Waists, Brassières, Bandeaux, Hose Supporters, and Men's and Women's Textile-Fabric Underwear.
Claims use since Feb. 1, 1922.

159,468. (CLASS 39. CLOTHING.) THE KABO COMPANY, Chicago, Ill. Filed Feb. 17, 1922.

Flatter-U

Particular description of goods.—Brassières and Corsets.
Claims use since Jan. 6, 1922.

Ser. No. 159,500. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE Co., Newark, N. J. Filed Feb. 18, 1922.

Surfway

Particular description of goods.—Bandeaux.
Claims use since Feb. 4, 1922.

Ser. No. 159,535. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOLAR ELECTRIC COMPANY, Chicago, Ill. Filed Feb. 18, 1922.

HANSLICK

Particular description of goods.—Soap.
Claims use since on or about May 12, 1921.

Ser. No. 159,549. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BEARDSLEY & PIPER COMPANY, Chicago, Ill. Filed Feb. 20, 1922.

SAND SLINGER

Particular description of goods.—Machines for Making Molds for Founding.
Claims use since Sept. 16, 1920.

Ser. No. 159,637. (CLASS 39. CLOTHING.) UTICA INFANT WEAR CORP., Utica, N. Y. Filed Feb. 20, 1922.

Diaphant

Particular description of goods.—Diapers.
Claims use since Sept. 1, 1921.

Ser. No. 159,656. (CLASS 39. CLOTHING.) IDEAL LINEN MESH CO., Poughkeepsie, N. Y. Filed Feb. 21, 1922.

SHIVERNIT

Particular description of goods.—Shawls and Sweaters.
Claims use since Feb. 15, 1922.

Ser. No. 159,670. (CLASS 39. CLOTHING.) GARRETT P. VAN LOPIK, doing business as G. P. Van Lopik & Co., Grand Haven, Mich. Filed Feb. 21, 1922.

Dorothy Jane

Particular description of goods.—Misses' and Children's Dresses.
Claims use since March, 1921.

Ser. No. 159,737. (CLASS 39. CLOTHING.) WESTERN GARMENT MFG. COMPANY, Salt Lake City, Utah. Filed Feb. 23, 1922.

ROSANA

Particular description of goods.—Ladies' Coats, Suits, Made Partly or Wholly of Wool, Cotton, or Silk; Ladies' Aprons, Dresses, Made Partly or Wholly of Cotton, Wool, or Silk; Ladies' Union Suits, Bloomers, Chemises, Vests, Nightgowns, Petticoats, Waists, Kimonos, Middies, Made Partly or Wholly of Cotton or Silk; Children's Dresses, Bloomers, Vests, Made Partly or Wholly of Cotton or Silk; Bath Robes for Men, Women, and Children, Made Partly or Wholly of Cotton or Wool; Overalls for Men, Women, and Children, Made of Cotton, and Shirts for Men and Boys, Made Partly or Wholly of Cotton or Silk.
Claims use since Jan. 3, 1922.

Ser. No. 159,744. (CLASS 39. CLOTHING.) CHAS. R. DE BEVOISE Co., Newark, N. J. Filed Feb. 24, 1922.

WILLOWAY

Particular description of goods.—Brassières.
Claims use since Dec. 10, 1921.

Ser. No. 159,779. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE J. BURNS, Youngstown, Ohio. Filed Feb. 25, 1922.

TRUSCO

Particular description of goods.—Fuel-Feeding Apparatus for Internal-Combustion Engines.
Claims use since Aug. 1, 1921.

Ser. No. 159,856. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ESTATE OF A. C. DECKER, doing business as Decker Manufacturing Company, Keokuk, Iowa. Filed Feb. 27, 1922.

NEVER ROOT

Particular description of goods.—Implement for Applying Rings to Noses of Animals.
Claims use since Jan. 28, 1922.

Ser. No. 159,871. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ANTHONY JEMIELITA, New York, N. Y. Filed Feb. 27, 1922.



Anthony Jemielita

The portrait and signature shown in drawing are the facsimiles of the picture and signature of applicant.
Particular description of goods.—Electrical Generators.
Claims use since Jan. 2, 1922.

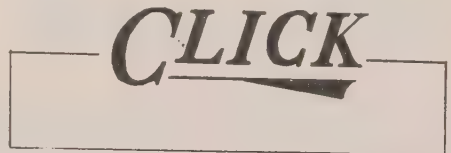
Ser. No. 159,914. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) SAMUEL W. AKINS, doing business as B. B. Transmission Wood Lining Co., Denver, Colo. Filed Feb. 28, 1922.



No claim made to representation of brake band apart from mark shown. Trade-mark comprises letters "B B" surrounded by representation of brake band.

Particular description of goods.—Wood Brake Linings and Wood Transmission Linings.
Claims use since Oct. 3, 1921.

Ser. No. 159,920. (CLASS 45. BEVERAGES, NONALCOHOLIC.) CALIFORNIA BOTTLING CO., Brooklyn, N. Y. Filed Feb. 28, 1922.



Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.

Claims use since Feb. 1, 1920.

Ser. No. 159,970. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JORDAN MARSH COMPANY, Boston, Mass. Filed Feb. 28, 1922.

"Fvord"

Particular description of goods.—Rotary Sifters.
Claims use since Aug. 15, 1921.

Ser. No. 160,049. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Mar. 2, 1922.

LINIT

Particular description of goods.—Laundry Starch.
Claims use since Feb. 21, 1922.

Ser. No. 160,071. (CLASS 11. INKS AND INKING MATERIALS.) MISSION BEAD COMPANY, Los Angeles, Calif. Filed Mar. 2, 1922.

Mission

Particular description of goods.—Writing Ink.
Claims use since Sept. 1, 1920.

Ser. No. 160,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. PAUL SUESS, Williamsport, Pa. Filed Mar. 2, 1922.

CYDO-GLYCIN

Particular description of goods.—Remedy for Chapped Hands, Salt Rheum, Chafing, and Sunburn.
Claims use since October, 1890.

Ser. No. 160,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. KRUMREIN, doing business as Petsy Manufacturing Company, Baltimore, Md. Filed Mar. 3, 1922.

PETSY

Particular description of goods.—Hair Restorer.
Claims use since Jan. 25, 1922.

Ser. No. 160,157. (CLASS 12. CONSTRUCTION MATERIALS.) W. H. SALISBURY & COMPANY, INCORPORATED, Chicago, Ill. Filed Mar. 3, 1922.

Velvet

Particular description of goods.—Rubber Tiling for Floors.
Claims use since about January, 1912.

Ser. No. 160,206. (CLASS 37. PAPER AND STATIONERY.) THE ROLLER PRINTING AND PAPER CO., Canton, Ohio. Filed Mar. 4, 1922. Under ten-year proviso.



Particular description of goods.—Blank Paper, Blank Envelopes, Paper Tablets, Shipping Labels, Invoices, Printed Letterheads, Printed Envelopes, and Blank Books.
Claims use since 1890.

Ser. No. 160,207. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) RAILWAY LOCK-SPIKE COMPANY, Atlanta, Ga. Filed Mar. 4, 1922.

RALOX

Particular description of goods.—Railway Tie Plates.
Claims use since Aug. 3, 1921.

Ser. No. 160,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTON ROESCH, doing business as Mi Chemical Co., Chicago, Ill. Filed Mar. 6, 1922.

KAROLA

Particular description of goods.—Antiseptic Healing Oil.
Claims use since January, 1914.

Ser. No. 160,266. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL B. TIZZARD, doing business as Solacene, Los Angeles, Calif. Filed Mar. 6, 1922.

SOLACENE

Particular description of goods.—Liniment for External Application for Dressing Wounds, Scalds, Burns, Cuts,

Sunburns, Bruises, Blisters, Hives, Sprains, Stiff Neck, Running Sores, Soreness and Tightness of the Chest, Soreness of the Bowels, Croup, Rheumatism, Headache, Neuralgia, Earache, Toothache, Bleeding After Extraction of Teeth, Frostbites, Poisoned Wounds, Ivy Poison, Insect Stings and Bites of Any Kind, Parasitic Infections.

Claims use since May 15, 1903.

Ser. No. 160,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED WEST, St. Louis, Mo. Filed Mar. 9, 1922.

Vita - Salt

No claim is made to use of word "Salt" apart from mark shown.

Particular description of goods.—Table Salt.

Claims use since Mar. 2, 1922.

Ser. No. 160,497. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOMO CHEMICAL COMPANY, Philadelphia, Pa. Filed Mar. 10, 1922.

KOMO

Particular description of goods.—Fly Liquids, Roach Powders, Liquid Sprays, Said Powders and Sprays Being Adapted for Dusting and Atomizing Throughout Houses, Stables, and Other Places Where Flies and Other Insects are Found for the Purpose of Destroying Same.

Claims use since June, 1912.

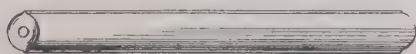
Ser. No. 160,518. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn. Filed Mar. 10, 1922.

TEC-CHAR

Particular description of goods.—Charcoal Not Specially Prepared for Decolorizing or Deodorizing.

Claims use since Feb. 17, 1921.

Ser. No. 160,534. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BOSTON INSULATED WIRE & CABLE CO., Boston, Mass. Filed Mar. 11, 1922.



No claim is made to representation of the wire shown in drawing. Trade-mark consists of two longitudinal ridges embossed on the insulation of wire or cable substantially 180 degrees apart.

Particular description of goods.—Electric Conductors, Wires, and Cables.

Claims use since Jan. 1, 1916.

Ser. No. 160,538. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES DILLA, Chicago, Ill. Filed Mar. 11, 1922.



Trade-mark is the applicant's own likeness.

Particular description of goods.—Preparation for the Treatment of Stomach, Bowels, Kidney, and Heart Trouble.

Claims use since about Feb. 1, 1922.

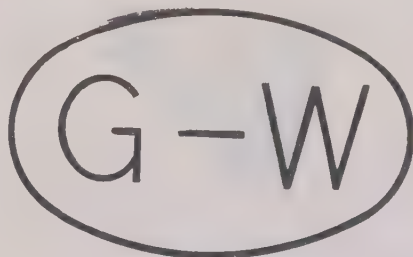
Ser. No. 160,546. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GREENBAUM COMPANY, Louisville, Ky. Filed Mar. 11, 1922.



Particular description of goods.—Medicated Healing Ointment or Salve.

Claims use since Mar. 1, 1921.

Ser. No. 160,548. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GEHMAN & WEINERT, Newark, N. J. Filed Mar. 11, 1922.



Particular description of goods.—Electrical Apparatus, More Particularly Tuning-Coil Sliders.

Claims use since on or about Feb. 1, 1922.

Ser. No. 160,623. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NORRIS BROS. INC., Robinson, Ill. Filed Mar. 13, 1922.

NO-CO-RO

Particular description of goods.—Balls and Seats and Drops for Oil-Well Valves.
Claims use since Apr. 30, 1921.

Ser. No. 160,652. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) JACOB BACHMANN, doing business as J. Bachmann & Co., New York, N. Y. Filed Mar. 14, 1922.

MANATI

Trade-mark "Manati."
Particular description of goods.—Leather Belting.
Claims use since about Feb. 15, 1922.

Ser. No. 160,735. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAY E. WHITE, La Fargeville, N. Y. Filed Mar. 15, 1922.



Trade-mark is a picture of applicant.
Particular description of goods.—Ointment for Treatment of Piles, Cuts, Sores, Burns, Frostbites, Sunburn, Corns, Skin Eruptions, Caked Udder, Garget Galls, and Collar Boils.
Claims use since Jan. 1, 1922.

Ser. No. 160,758. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE GLAZIER MFG. COMPANY, South Glastonbury, Conn. Filed Mar. 16, 1922.

LOCHMOOR

Trade-mark "Lochmoor."
Particular description of goods.—Woolen Piece Goods.
Claims use since Mar. 6, 1922.

Ser. No. 160,827. (CLASS 37. PAPER AND STATIONERY.) THE MOORE PEN COMPANY, Boston, Mass. Filed Mar. 17, 1922.

MOORE RITE

Trade-mark "Moorerite."
Particular description of goods.—Fountain Pens and Lead Pencils.
Claims use since Nov. 17, 1921.

Ser. No. 160,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILSON PILE CURE CO., Wilson, N. C. Filed Mar. 17, 1922.

DRAKE'S



The picture in trade-mark is a photograph of one of the members of the firm, Jas. N. Drake.
Particular description of goods.—Medicinal Compound for the Treatment of Piles, Sore Feet, and Sores.
Claims use since Nov. 5, 1921.

Ser. No. 160,877. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DUESENBERG AUTOMOBILE & MOTORS CO. INC., Indianapolis, Ind. Filed Mar. 18, 1922.



No claim to word and numeral, "Straight 8."
Particular description of goods.—Motor Cars.
Claims use since Nov. 1, 1920.

Ser. No. 160,933. (CLASS 31. FILTERS AND REFRIGERATORS.) EDWARD ECKL, Los Angeles, Calif. Filed Mar. 20, 1922.



No claim is made to the words "Trade Mark," "Refrigerator Co.," and "Los Angeles, Cal."

Particular description of goods.—Refrigerators.

Claims use since Jan. 1, 1922.

Ser. No. 160,971. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PRIMROSE SILK STORES, INC., New York, N. Y. Filed Mar. 20, 1922.



Particular description of goods.—Silks in the piece.
Claims use since Mar. 1, 1922.

Ser. No. 160,975. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RAILWAY AND MINE SUPPLY COMPANY, Kincaid, Ill. Filed Mar. 20, 1922.



Particular description of goods.—Industrial and Mine Cars and Roller-Bearing Trucks, Motor and Horse Drawn, and Wheels and Axles.

Claims use since May 1, 1920.

Ser. No. 160,990. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PETER AMSTERDAM, trading as The Amsterose Co., Philadelphia, Pa. Filed Mar. 21, 1922.

SHAWELL

Particular description of goods.—Preparation Used for Shaving Cream and Chapped Skin.

Claims use since Feb. 1, 1921.

Ser. No. 160,997. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH CROSFIELD & SONS, LIMITED, Warrington, England. Filed Mar. 21, 1922.

CARBOSIL

Particular description of goods.—Bleaching and Water-Softening Preparation.

Claims use since Aug. 22, 1900.

Ser. No. 161,007. (CLASS 17. TOBACCO PRODUCTS.) LE FRANCIS CIGAR COMPANY, Cambridge, Mass. Filed Mar. 21, 1922.

NORTHERN
LIGHT

Particular description of goods.—Cigars.
Claims use since May 1, 1888.

Ser. No. 161,043. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FISK RUBBER COMPANY, Chicopee Falls, Mass. Filed Mar. 22, 1922.



The lining on drawing is to indicate the color red.
Particular description of goods.—Rubber Vehicle Tires.
Claims use since Mar. 1, 1922.

Ser. No. 161,225. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEO. B. CARPENTER & Co., Chicago, Ill. Filed Mar. 25, 1922.

WINDLASS

Particular description of goods.—Cotton Waste.
Claims use since Feb. 1, 1921.

Ser. No. 161,242. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EVERETT ELECTRIC CORPORATION, New York, N. Y. Filed Mar. 25, 1922.



Particular description of goods.—Head Receivers, Condensers, Transformers, Detectors, Radio Receiving Sets, and Parts Thereof.

Claims use since on or about Mar. 21, 1922.

Ser. No. 161,301. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE CLEVELAND METAL PRODUCTS COMPANY, Cleveland, Ohio. Filed Mar. 27, 1922.

SUPERFEX

Particular description of goods.—Oil Stoves, Oil Burners, Oil Water Heaters, and Ovens for Oil Stoves.

Claims use since about Mar. 1, 1922.

Ser. No. 161,329. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MARRET, BONNIN, LEBEL & GUIEU, Paris, France. Filed Mar. 27, 1922.

TINTOR

Trade-mark consists of invented word "Tintor."

Particular description of goods.—Alloys for Use in the Manufacture of Jewelry and Jewelers' Goods.

Claims use since Sept. 1, 1921.

Ser. No. 161,434. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) WILLIAM GRAHAM, New York, N. Y. Filed Mar. 29, 1922.



No claim is made to exclusive use of the representation of the stretched hide apart from the mark as shown.

Particular description of goods.—Leather—viz, Bends, Blocks, Strips, and Offal.

Claims use since Mar. 2, 1922.

Ser. No. 161,505. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW ENGLAND COMMERCIAL CO., New York, N. Y. Filed Mar. 30, 1922.



Trade-mark consists of Arab holding horse in the foreground of a desert scene in connection with the words "Arabian Head," the entire design being surrounded by a fanciful border.

Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 9, 1922.

Ser. No. 161,537. (CLASS 27. HOROLOGICAL INSTRUMENTS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Mar. 31, 1922.



The words "Alarm Clocks" do not form a part of registration sought apart from mark shown. The picture of man in drawing is fanciful.

Particular description of goods.—Alarm Clocks.

Claims use since 1901.

Ser. No. 161,629. (CLASS 38. PRINTS AND PUBLICATIONS.) JOURNAL COMPANY, INCORPORATED, Detroit, Mich. Filed Apr. 1, 1922.

CHANDLER RICHARD LAURENCE.

Trade-mark is a nom de plume of the applicant.
Particular description of goods.—Newspaper Section.
Claims use since Feb. 1, 1921.

Ser. No. 161,633. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL METADIER, Tours, France. Filed Apr. 1, 1922.

MÉTASPIRINE

Particular description of goods.—Analgesic Tablets for Headache, Neuralgia, Rheumatism, Grippe, Fever, Fatigue, etc.

Claims use since Nov. 9, 1914.

Ser. No. 161,635. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

ANOLIDE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysts, Rubber-Compounding Ingredients, and Flotation Agents.

Claims use since Feb. 7, 1922.

Ser. No. 161,636. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

PARYLINE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysts, Rubber-Compounding Ingredients, and Flotation Agents.

Claims use since Feb. 8, 1922.

Ser. No. 161,637. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

PHENALDINE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysts, Rubber-Compounding Ingredients, and Flotation Agents.

Claims use since Feb. 13, 1922.

300 O. G.—38

Ser. No. 161,638. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

THANILIDE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysts, Rubber-Compounding Ingredients, and Flotation Agents.

Claims use since Feb. 6, 1922.

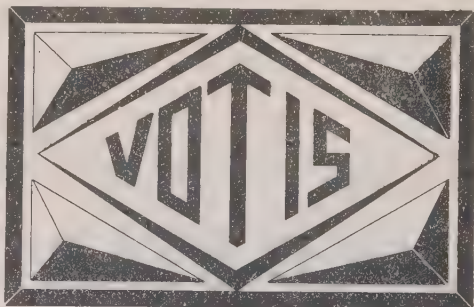
Ser. No. 161,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 1, 1922.

TRENYLINE

Particular description of goods.—Coal-Tar Chemicals or Intermediates, Rubber Accelerators or Catalysts, Rubber-Compounding Ingredients, and Flotation Agents.

Claims use since Feb. 6, 1922.

Ser. No. 161,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH RADZEVICH, Waterbury, Conn. Filed Apr. 1, 1922.



Particular description of goods.—Healing Salve.
Claims use since Aug. 15, 1921.

Ser. No. 161,654. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN T. STANLEY Co. Inc., New York, N. Y. Filed Apr. 1, 1922.

Kar-Mu

Particular description of goods.—Oil Soap.
Claims use since Feb. 1, 1922.

Ser. No. 161,715. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ABNER - DRURY COMPANY, Washington, D. C. Filed Apr. 4, 1922.



Particular description of goods.—Ginger Ale.
Claims use since Mar. 14, 1922.

Ser. No. 161,729. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HART & HEGEMAN MANUFACTURING COMPANY, Hartford, Conn. Filed Apr. 4, 1922.



Trade-mark consists of representation of a gold star.
Particular description of goods.—Electrical Switches and Pull Sockets.
Claims use since on or about Dec. 7, 1921.

Ser. No. 161,730. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE HART & HEGEMAN MANUFACTURING COMPANY, Hartford, Conn. Filed Apr. 4, 1922.

GOLD STAR

Particular description of goods.—Electrical Switches and Pull Sockets.
Claims use since on or about Dec. 7, 1921.

Ser. No. 161,749. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK RYAN, trading as the Oriole Belt Dressing Co., Baltimore, Md. Filed Apr. 4, 1922.

ORIOLE

Particular description of goods.—Belt Dressing.
Claims use since about Jan. 20, 1922.

Ser. No. 161,783. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LOYD WIRELESS TELEPHONE CORPORATION, Dover, Del. Filed Apr. 5, 1922.

VOCAPHONE

Particular description of goods.—Wireless Transmitting and Receiving Apparatus.
Claims use since Mar. 26, 1922.

Ser. No. 161,790. (CLASS 9. EXPLOSIVES, FIRE-ARMS, EQUIPMENTS, AND PROJECTILES.) PAGE-LEWIS ARMS COMPANY, Chicopee Falls, Mass. Filed Apr. 5, 1922.



No claim to words "Single Shot Rifles" or to "Chicopee Falls, Mass. U. S. A." apart from mark shown.
Particular description of goods.—Rifles.
Claims use since Feb. 1, 1922.

Ser. No. 161,803. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING Co., Danvers, Mass. Filed Apr. 5, 1922.

RED SEAL BRAND

No claim to word "Brand" apart from mark shown; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Wax and Chalk Crayons.
Claims use since 1902.

Ser. No. 161,833. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PHILIP H. GUNDERMANN, doing business as Atlas Torch Mfg. Co., Chicago, Ill. Filed Apr. 6, 1922.



No claim is made to the words "Atlas Torch Mfg. Co., Chicago, Ill., U. S. A." apart from the mark shown.

Particular description of goods.—Plumbers' Torches.
Claims use since Mar. 28, 1922.

Ser. No. 161,839. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WALTER JAMRO, Manchester, N. H. Filed Apr. 6, 1922.

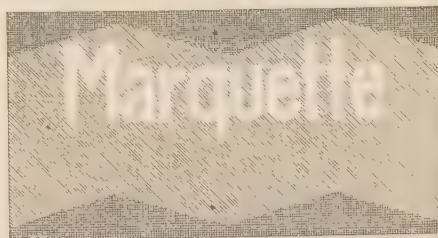


The picture and signature shown are that of applicant.

Particular description of goods.—Electrically-Operated Theft-Preventing Device.

Claims use since Oct. 14, 1921.

Ser. No. 161,846. (CLASS 12. CONSTRUCTION MATERIALS.) MARQUETTE CEMENT MANUFACTURING Co., Chicago, Ill. Filed Apr. 6, 1922.



On the drawing the cross lines or shading indicate black and oblique lines or shading indicate green.

Particular description of goods.—Portland Cement.

Claims use since January, 1897.

Ser. No. 161,857. (CLASS 37. PAPER AND STATIONERY.) STANDARD CRAYON MANUFACTURING Co., Danvers, Mass. Filed Apr. 6, 1922.

VELASQUEZ

Trade-mark consists of surname of deceased Spanish artist, Velasquez.

Particular description of goods.—Wax and Chalk Crayons.

Claims use since 1914.

Ser. No. 161,870. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ART METAL WORKS, INC., Newark, N. J. Filed Apr. 7, 1922.

RONSON REDSKIN RELOAD



No claim to exclusive use of the word "Reload" apart from the mark.

Particular description of goods.—Pieces of Sparking Metal.

Claims use since Apr. 4, 1922.

Ser. No. 161,893. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FOSTER MILLIKEN, New York, N. Y. Filed Apr. 7, 1922.

"TALKING LAMP"

Trade-mark consists of the words "Talking Lamp."

Particular description of goods.—Electric Street Signaling Lamps.

Claims use since December, 1921.

Ser. No. 162,011. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) INTERNATIONAL WELDING ENGINEERING CORPORATION, Chicago, Ill. Filed Apr. 10, 1922.



The words "Coated Electrodes" are disclaimed apart from mark.

Particular description of goods.—Arc-Welding Metal Electrodes.

Claims use since about Apr. 30, 1920.

Ser. No. 162,080. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WORCESTER ELECTRIC SUPPLY Co., Worcester, Mass. Filed Apr. 10, 1922.



Particular description of goods.—Bicycles.

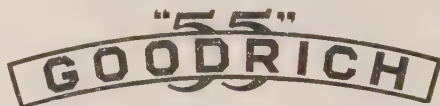
Claims use since 1921.

Ser. No. 162,106. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) FOSTER, MERRIAM & COMPANY, Meriden, Conn. Filed Apr. 11, 1922.

Bear-Tite

Particular description of goods.—Metallic Piston Rings.
Claims use since Jan. 17, 1922.

Ser. No. 162,167. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Apr. 12, 1922.



Particular description of goods.—Pneumatic-Tire Casings Made of Rubber Combined with Fabric.

Claims use since about February, 1922.

Ser. No. 162,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MASTER CHEMICAL Co., Columbus Junction, Iowa. Filed Apr. 12, 1922.

MASTER

Particular description of goods.—Embalming Fluid.

Claims use since May 1, 1921.

Ser. No. 162,225. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAE EDNA WILDER, Rochester, N. Y. Filed Apr. 12, 1922.

HYLAS

Particular description of goods.—Face Cream.

Claims use since Feb. 28, 1922.

Ser. No. 162,227. (CLASS 37. PAPER AND STATIONERY.) E. A. PAUL WOLF CO., New York, N. Y. Filed Apr. 12, 1922.



No claim to words "Loose Leaf Devices" apart from the mark shown.

Particular description of goods.—Loose-Leaf Devices.
Claims use since February, 1922.

Ser. No. 162,260. (CLASS 37. PAPER AND STATIONERY.) NATIONAL BLANK BOOK CO., Holyoke, Mass. Filed Apr. 13, 1922.

Aladdin

Particular description of goods.—Loose-Leaf Binders and Bound Blank Books and Indexes.
Claims use since Mar. 25, 1922.

Ser. No. 162,309. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NORTHERN JOBBING COMPANY, Chicago, Ill. Filed Apr. 14, 1922.

NJC

Particular description of goods.—Lye.
Claims use since Jan. 1, 1915.

Ser. No. 162,359. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES R. SAUNDERS, Chicago, Ill. Filed Apr. 15, 1922.

S O S A

Particular description of goods.—Soap.
Claims use since on or about Feb. 1, 1922.

Ser. No. 162,366. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WITHEROW STEEL COMPANY, Pittsburgh, Pa. Filed Apr. 15, 1922.



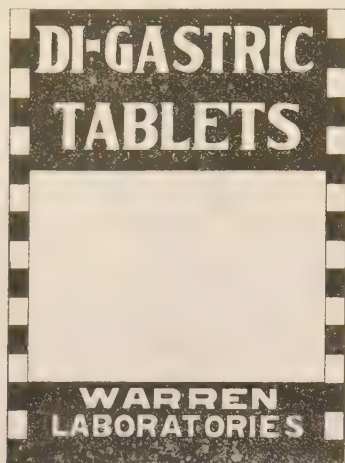
Particular description of goods.—Rolled Iron and Steel Blanks and Shapes.
Claims use since Mar. 4, 1922.

Ser. No. 162,367. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WITHEROW STEEL COMPANY, Pittsburgh, Pa. Filed Apr. 15, 1922.



The lining in drawing indicates shading.
Particular description of goods.—Rolled Iron and Steel Blanks and Shapes.
Claims use since Mar. 4, 1922.

Ser. No. 162,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. ENELL, doing business as Warren Laboratories, Rochester, N. Y. Filed Apr. 17, 1922.



No claim is made to words "Di Gastric Tablets" apart from mark shown.

Particular description of goods.—Medicine for Stomach Troubles.

Claims use since on or about Jan. 15, 1922.

Ser. No. 162,405. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOHN W. HANCOCK, doing business as J. W. Hancock Electrical Co., Denver, Colo. Filed Apr. 17, 1922.

COLUMBALITE

Particular description of goods.—Electric-Light Fixtures.

Claims use since Nov. 1, 1921.

Ser. No. 162,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., doing business as the Dae Health Laboratories, New York, N. Y. Filed Apr. 17, 1922.

Vitamized

Particular description of goods. Medicinal Preparation for Malassimilation and Nutritional Disorders.

Claims use since Dec. 22, 1921.

Ser. No. 162,452. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RUTLAND FIRE CLAY Co., Rutland, Vt. Filed Apr. 17, 1922. Under Sec. 9 of the act of Mar. 19, 1920.

RUTLAND

Particular description of goods.—Liquid Stove Polish, Metal Polish, Enamel Cleaner, and Waste-Pipe Cleaner.

Claims use since some time in March, 1901.

Ser. No. 162,476. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) P. L. BEARDEN, Dallas, Tex. Filed Apr. 18, 1922.

DUST-ETER

Particular description of goods.—Polishing Cloth.

Claims use in business in State commerce since Mar. 20, 1922; in interstate commerce since Apr. 11, 1922.

Ser. No. 162,616. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PHILIP E. EDELMAN, New York, N. Y. Filed Apr. 20, 1922.

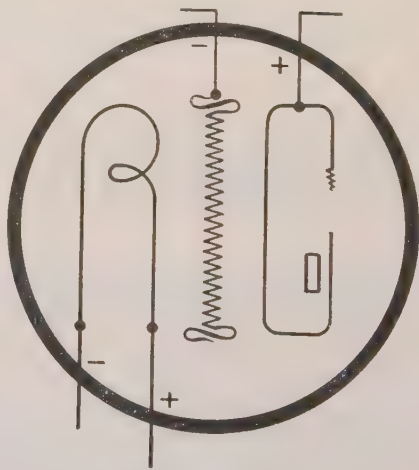
Edelman's Raytainor

No claim to the word "Edelman's" except in connection with the mark.

Particular description of goods.—Complete Loud-Speaking Wireless Receiving Sets, Radio Cabinets, Containing Radio Apparatus Mounted in and on Said Cabinets, Combined Radio and Phonograph Machines, and Wireless Receiving Sets and Parts.

Claims use since Aug. 1, 1921.

Ser. No. 162,669. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BRENT DANIEL, doing business as Radio Instrument Company, Washington, D. C. Filed Apr. 21, 1922.



Particular description of goods.—Radio, Telegraph, and Telephone Transmitting and Receiving Apparatus.

Claims use since Sept. 1, 1920.

Ser. No. 162,767. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) PACIFIC CHEMICAL COMPANY, Los Angeles, Calif. Filed Apr. 22, 1922.

PASTY

Particular description of goods.—Hand Soap.

Claims use since Jan. 28, 1922.

Ser. No. 162,810. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EAGLE CHEMICAL COMPANY, Milwaukee, Wis. Filed Apr. 24, 1922.

Zerobac

Particular description of goods.—Cleansing, Sterilizing, and Disinfecting Compound.

Claims use since about Oct. 5, 1921.

Ser. No. 162,840. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MID-WEST MANUFACTURING COMPANY, Minneapolis, Minn. Filed Apr. 24, 1922.

RED DEVIL

Particular description of goods.—Burnishing Compound.

Claims use since Nov. 15, 1921.

Ser. No. 162,857. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SALOMON & WIENER, INC., New York, N. Y. Filed Apr. 24, 1922.



Particular description of goods.—Unmanufactured Fur.

Claims use since Feb. 1, 1922.

Ser. No. 162,903. (CLASS 37. PAPER AND STATIONERY.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed Apr. 25, 1922.

SOCONY

Particular description of goods.—Crayons.

Claims use since Feb. 26, 1908.

Ser. No. 162,959. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS., New York, N. Y. Filed Apr. 26, 1922.



Particular description of goods.—Golf Balls.

Claims use since Mar. 21, 1922.

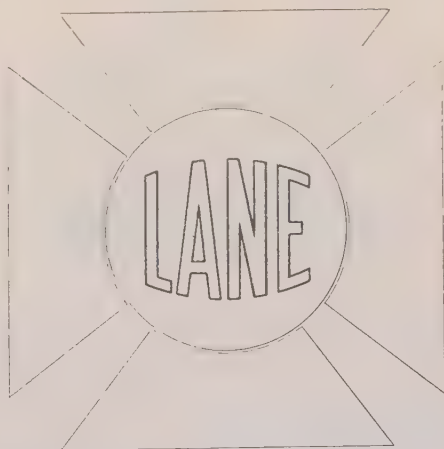
Ser. No. 163,043. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRED WRIGHT HOGUE, McGregor, Iowa. Filed Apr. 28, 1922.



Particular description of goods.—Liquid Preparation for Cleaning Rugs, Carpets, Upholstery, and the Like.

Claims use since Dec. 21, 1920.

Ser. No. 163,155. (CLASS 12. CONSTRUCTION MATERIALS.) ARTHUR E. LANE LUMBER CORP., New York, N. Y. Filed May 1, 1922.



Particular description of goods.—Wood Shingles.

Claims use since about 1912.

Ser. No. 163,178. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RIESER COMPANY, New York, N. Y. Filed May 1, 1922.



Particular description of goods.—Hair Nets.

Claims use since May 29, 1920.

Ser. No. 163,181. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RIESER COMPANY, New York, N. Y. Filed May 1, 1922.

PENELA

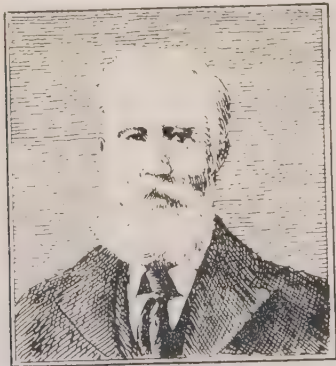
Particular description of goods.—Hair Nets.
Claims use since May 29, 1920.

Ser. No. 163,228. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MULHENS & KROPFF, INCORPORATED, New York, N. Y. Filed May 2, 1922.

L'OFFRANDE

Particular description of goods.—Toilet Soaps.
Claims use since March, 1922.

Ser. No. 163,273. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALONZO C. HOLLOWAY, Hoisington, Kans. Filed May 3, 1922.



The portrait comprising a part of trade-mark is that of applicant.

Particular description of goods.—Cough Sirup Used in the Treatment of Colds, Croup, Whooping Cough, Asthma, Consumption, and All Kinds of Lung Trouble.

Claims use since Mar. 18, 1922.

Ser. No. 163,280. (CLASS 37. PAPER AND STATIONERY.) WILLIAM MANN COMPANY, Philadelphia, Pa. Filed May 3, 1922.

MANCO

Particular description of goods.—Checks, Check-Book Cases, and Check-Book Covers, and Safety Paper.

Claims use since about Dec. 27, 1921; on safety paper since Mar. 1, 1922.

Ser. No. 163,297. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & WALLS, New York, N. Y. Filed May 3, 1922.

BOCAIRE

Trade-mark "Bocaire."

Particular description of goods.—Shirtings in the Piece Woven from Silk or Cotton or Mixtures of the Same.

Claims use since Apr. 24, 1922.

Ser. No. 163,298. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER & STROOCK, INC., New York, N. Y. Filed May 3, 1922.

DOUV=CHINE

Particular description of goods.—Cloth Made of Artificial Silk.

Claims use since Apr. 21, 1922.

Ser. No. 163,388. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 5, 1922.

KISMET

Particular description of goods.—Hair Nets.

Claims use since Mar. 27, 1922.

Ser. No. 163,389. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 5, 1922.

Myro

Particular description of goods.—Hair Nets.

Claims use since Mar. 27, 1922.

Ser. No. 163,390. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 5, 1922.

SWANNETTE

Particular description of goods.—Hair Nets.

Claims use since Mar. 27, 1922.

Ser. No. 163,414. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROYAL LEMON PRODUCTS Co., St. Paul, Minn. Filed May 5, 1922.



Particular description of goods.—Washing Powders.
Claims use since June 15, 1916.

Ser. No. 163,442. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GRAIN JUICE COMPANY, Dallas, Tex. Filed May 6, 1922.

TROPI-COLA

No claim to word "Cola" apart from mark.
Particular description of goods.—Nonalcoholic, Non-cereal, Maltless Beverages Sold as Soft Drinks and Sirups for Making Same.

Claims use since Feb. 1, 1921.

Ser. No. 163,490. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ZOLLINGER AND SCHROTH, Inc., New York, N. Y. Filed May 6, 1922.

VEL DU BARRY

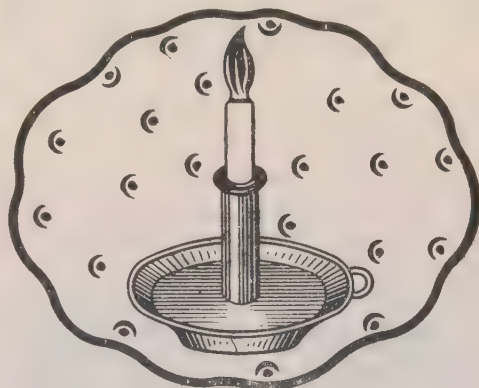
Particular description of goods.—Silk Piece Goods.
Claims use since Apr. 27, 1922.

Ser. No. 163,672. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SARAH A. COLSON and JESSIE L. COLSON, administratrices of the estate of Edwin Colson, Elmer, N. J. Filed May 11, 1922.



Particular description of goods.—Seed Potatoes.
Claims use since Mar. 10, 1922.

Ser. No. 163,682. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. HARRY KANDLE, Elmer, N. J. Filed May 11, 1922.



Particular description of goods.—Seed Potatoes.
Claims use since Apr. 4, 1922.

Ser. No. 163,697. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) PARISIENNE FLAPPER PARASOL COMPANY, Mt. Vernon, Ind. Filed May 11, 1922.

PARISIENNE FLAPPER

Particular description of goods.—Novelty Parasols.
Claims use since Nov. 1, 1921.

Ser. No. 163,725. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) WRIGHT BINDLEY & GELL LIMITED, Sheffield and Birmingham, England. Filed May 11, 1922. Under ten-year proviso.

THE ARMSTRONG

Trade-mark consists of the words "The Armstrong."
Particular description of goods.—Umbrella Ribs and Stretchers of Steel or Iron.
Claims use since Nov. 18, 1884.

Ser. No. 163,727. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ASHAWAY LINE & TWINE MANUFACTURING COMPANY, Ashaway, R. I. Filed May 12, 1922. Under ten-year proviso.

CUTTYHUNK

Trade-mark "Cuttyhunk."

Particular description of goods.—Fishing Line.

Claims use since 1850.

Ser. No. 163,820. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUGH NELSON'S COLUMBIA CARPET MILLS, Philadelphia, Pa. Filed May 18, 1922.

NELSON'S COLUMBIA CARPET MILLS CORONA

Particular description of goods.—Axminster Rugs.

Claims use since Apr. 3, 1922.

Ser. No. 163,893. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PHILIPSBORN'S INC., Chicago, Ill. Filed May 15, 1922.

PHILOOM

Particular description of goods.—Silk Taffetas and Satin Messalines in the Piece.

Claims use since Apr. 1, 1922.

Ser. No. 163,903. (CLASS 12. CONSTRUCTION MATERIALS.) THOMAS MOULDING BRICK COMPANY, Chicago, Ill. Filed May 15, 1922.

T-M-B FLOORING

No claim to exclusive use of word "Flooring" apart from mark.

Particular description of goods.—Mastic Flooring.

Claims use since 1917.

Ser. No. 163,937. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABRAHAM MELL, New York, N. Y. Filed May 16, 1922.

Green River

Particular description of goods.—Hair Tonic.

Claims use since Mar. 9, 1922.

Ser. No. 163,953. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VICTOR-MONAGHAN COMPANY, Greenville, S. C. Filed May 16, 1922.

SENECA

Trade-mark "Seneca."

Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 13, 1913.

Ser. No. 164,027. (CLASS 37. PAPER AND STATIONERY.) EUGENE DIETZGEN COMPANY, Chicago, Ill. Filed May 18, 1922.

EDCO

Particular description of goods.—Lead Pencils.

Claims use since Feb. 12, 1922.

Ser. No. 164,061. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed May 18, 1922.

DECORAY

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.

Claims use since May 5, 1922.

Ser. No. 164,062. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed May 18, 1922.

TWEEDTEX

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.

Claims use since May 11, 1922.

Ser. No. 164,063. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & Co., Philadelphia, Pa. Filed May 18, 1922.

ECRUSHEEN

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen and Silk, All in the Piece.

Claims use since May 9, 1922.

Ser. No. 164,113. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORRIS, MANN & REILLY, INC., Chicago, Ill. Filed May 19, 1922.



Particular description of goods.—Hair Nets.
Claims use since April 15, 1922.

Ser. No. 164,121. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

BEAUTY

Particular description of goods.—Snapping Mottoes.
Claims use since 1916.

Ser. No. 164,124. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

LEADER

Particular description of goods.—Snapping Mottoes.
Claims use since January, 1921.

Ser. No. 164,166. (CLASS 37. PAPER AND STATIONERY.) INTERNATIONAL PAPER COMPANY, New York, N. Y. Filed May 20, 1922.

I P C O

Particular description of goods.—Paper Used for Writing and Printing Purposes.

Claims use since Apr. 22, 1922.

Ser. No. 164,170. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) F. W. KLINGER AND LANGEIN Co., Philadelphia, Pa. Filed May 20, 1922.

Common Sense

Particular description of goods.—Fishing-Fly Books.
Claims use since about Jan. 1, 1913.

Ser. No. 164,250. (CLASS 37. PAPER AND STATIONERY.) CHARLES F. HUBBS & COMPANY, New York, N. Y. Filed May 22, 1922.



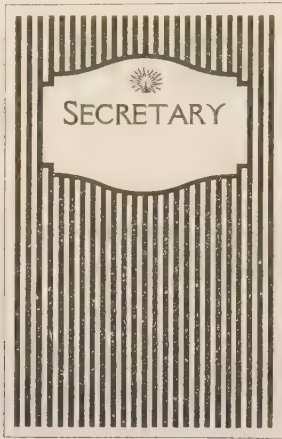
Particular description of goods.—Wrapping Paper.
Claims use since 1920.

Ser. No. 164,251. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ITEN BISCUIT Co., Clinton, Iowa. Filed May 22, 1922.

FAIRY

Particular description of goods.—Soda Crackers.
Claims use since 1905.

Ser. No. 164,306. (CLASS 37. PAPER AND STATIONERY.) J. C. BLAIR COMPANY, Huntingdon, Pa. Filed May 23, 1922.



Particular description of goods.—Paper for Writing and Printing Purposes, Drawing Paper, Pencil Paper, Envelopes for Correspondence, Writing, Pencil, Drawing, and Spelling Tablets, and Blank Books.
Claims use since February, 1922.

Ser. No. 164,327. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

HOOSIER

Particular description of goods.—Paper and Envelopes.
Claims use since November, 1903.

Ser. No. 164,361. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive representation to the fish and line nor to the words "Brand," "Quality First," "Extra Finish," "Braided Cotton Line," "No Trout," or "50 Ft." apart from the mark shown.
Particular description of goods.—Braided Cotton Fishing Lines.
Claims use since July 29, 1919.

Ser. No. 164,366. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "Standard Bait Casting Japan Silk," "Strong and Durable," "50 Yds.," "Waterproof," "For Lake or Stream," "No.," or "Test" apart from mark shown.
Particular description of goods.—Japan - Silk Waterproof Fishing Lines.
Claims use since May, 1916.

Ser. No. 164,368. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO., INC., Cortland, N. Y. Filed May 24, 1922.



No claim to the exclusive use of the representation of a fish and line nor to the words "Brand," "Selected Quality Japan Silk," "Peerless Process," "Enameled Line," "Flexible," "Durable," or "Quality First," apart from the mark.
Particular description of goods.—Enameled Japan-Silk Fishing Lines.
Claims use since June 8, 1920.

Ser. No. 164,370. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive representation of a fish and line nor to the words "Selected Quality Japan Silk," "Peerless Process," "Brand," "Enameled Line," "Flexible," "Durable," or "Quality First," apart from the mark.
Particular description of goods.—Enameled Japan-Silk Fishing Lines.

Claims use since Sept. 5, 1919.

Ser. No. 164,371. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of representation of a fish and line nor to the words "Brand," "Oiled Silk Line," "No. 4," "25 Yds.," or "Quality First" apart from mark.

Particular description of goods.—Oiled - Silk Fishing Lines.

Claims use since June 25, 1919.

Ser. No. 164,374. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of representation of a fishing line nor to words "Brand," "First Quality of Japan Silk," "Pressure Processed," "Braided Silk," "Enameled Silk Fly Line," or "Quality First," apart from mark.

Particular description of goods.—Braided Japan - Silk Enameled Fishing Lines.

Claims use since June 24, 1918.

Ser. No. 164,385. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "A Pure Silk Line for Lake or Stream," or "Extra Quality" apart from mark shown.

Particular description of goods.—Pure - Silk Fishing Lines.

Claims use since Apr. 29, 1916.

Ser. No. 164,387. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "A Hard Braid Bait Casting Line" or "Pure Japan Silk," apart from mark shown.

Particular description of goods.—Pure-Japan-Silk Fishing Lines.

Claims use since May 3, 1916.

Ser. No. 164,390. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "Strictly High Grade Casting Line," "50 Yds.," "No.," or "Test" apart from the mark shown.

Particular description of goods.—Fishing Lines.

Claims use since May 19, 1916.

Ser. No. 164,494. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) COHN & ROSENBERGER, INC., New York, N. Y. Filed May 25, 1922.

Collegiate

Particular description of goods.—Bracelets.

Claims use since Jan. 1, 1922.

Ser. No. 164,556. (CLASS 31. FILTERS AND REFRIGERATORS.) GEORGE GRANT PETERSON, East Providence, R. I. Filed May 26, 1922.



Trade-mark consists of the representation of an iceberg.

Particular description of goods.—Ice-Cream Cabinets.

Claims use since Apr. 22, 1922.

Ser. No. 164,722. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORA L. SCOVIL, New York, N. Y. Filed May 31, 1922.

PIN PERSONALITIES

Particular description of goods.—Dolls.

Claims use since May 24, 1922.

Ser. No. 164,789. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) REEVES COAL AND DOCK CO., Minneapolis, Minn. Filed June 1, 1922.



No claim is made to the word "Coal" except as associated with rest of mark.

Particular description of goods.—Coal.

Claims use since Oct. 1, 1910.

Ser. No. 165,080. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 6, 1922.



Particular description of goods.—Golf Balls.

Claims use since Sept. 12, 1922.

Ser. No. 165,264. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIDNEY S. BENDICK, doing business as Trancilla Company, New York, N. Y. Filed June 10, 1922.



Particular description of goods.—Chemical Composition Employed in Stamping Patterns for Art Needlework.

Claims use since Apr. 11, 1922.

Ser. No. 165,298. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MILLER & KENT, Bradford, Pa. Filed June 10, 1922.

SOLV-IT

Particular description of goods.—Puzzle.

Claims use since Jan. 27, 1922.

Ser. No. 165,376. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 12, 1922.



Particular description of goods.—Golf Balls.

Claims use since about May 1, 1922.

Ser. No. 165,377. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 12, 1922.



Particular description of goods.—Golf Balls.

Claims use since about May 1, 1922.

Ser. No. 165,378. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HOLMAC, INC., New York, N. Y. Filed June 12, 1922.



Particular description of goods.—Golf Balls.

Claims use since about May 1, 1922.

Ser. No. 165,401. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MEIER & FRANK Co., Portland, Oreg. Filed June 12, 1922.

"Gets-em"

Particular description of goods.—Fish Hooks and Flies.

Claims use since Apr. 1, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 18, 1922

- 156,828. A FOOD CONFECTION COMPRISING SEED-LESS RAISINS AND ROASTED PEANUTS. C. C. ADAMS, Cleves, Ohio.
Filed November 23, 1921. Serial No. 155,797. PUBLISHED APRIL 11, 1922.
- 156,829. MOTION-PICTURE CAMERAS AND MOTION-PICTURE PROJECTORS. ALADDIN CINEMA COMPANY, INC., Malone, N. Y.
Filed October 8, 1921. Serial No. 153,866. PUBLISHED APRIL 25, 1922.
- 156,830. CANNED FRUITS AND VEGETABLES, FRUIT PRESERVES, TABLE SAUCES AND DRESSINGS, PICKLES, MINCEMEAT. ALLISON-BEDFORD CO., Chicago, Ill.
Filed August 23, 1921. Serial No. 152,057. PUBLISHED APRIL 11, 1922.
- 156,831. TABLE SIRUP. THE AMERICAN MOLASSES COMPANY OF NEW YORK, New York, N. Y.
Filed August 29, 1921. Serial No. 152,297. PUBLISHED APRIL 4, 1922.
- 156,832. INTERNAL-COMBUSTION ENGINES AND CREAM-SEPARATING MACHINES. ASSOCIATED MANUFACTURERS COMPANY, Waterloo, Iowa.
Filed October 12, 1921. Serial No. 154,008. PUBLISHED APRIL 25, 1922.
- 156,833. COUGH SIRUP. J. HOWARD BAKER, Fort Smith, Ark.
Filed November 18, 1921. Serial No. 155,544. PUBLISHED FEBRUARY 21, 1922.
- 156,834. CANDY, AND MORE SPECIFICALLY TAFFY OR MOLASSES CANDY. HERMAN A. BANKES, St. Louis, Mo.
Filed December 5, 1921. Serial No. 156,249. PUBLISHED APRIL 18, 1922.
- 156,835. COMPOUND OF OIL, COMPOSED OF CORN OIL AND OLIVE OIL. BAY BEE OIL CO., New York, N. Y.
Filed November 26, 1920. Serial No. 140,159. PUBLISHED APRIL 4, 1922.
- 156,836. HOSIERY. BESTEX HOSIERY CO., INC., New York, N. Y.
Filed October 8, 1921. Serial No. 153,870. PUBLISHED APRIL 18, 1922.
- 156,837. FLEXIBLE DRIVING MECHANISM OF THE BELT AND PULLEY TYPE AND WOODWORKING AND GRINDING MACHINERY. THE P. L. BILLINGSLEY COMPANY, Cincinnati, Ohio.
Filed September 22, 1921. Serial No. 153,197. PUBLISHED APRIL 25, 1922.
- 156,838. TIRE-TUBE PATCHES. FRANK H. BINNINGER, Cleveland, Ohio.
Filed August 23, 1921. Serial No. 152,062. PUBLISHED FEBRUARY 21, 1922.
- 156,839. TIRE-TUBE PATCHES. FRANK H. BINNINGER, Cleveland, Ohio.
Filed August 23, 1921. Serial No. 152,063. PUBLISHED JANUARY 31, 1922.
- 156,840. SHEET-RUBBER PATCHES FOR TIRE TUBES, HOT-WATER BOTTLES, RAINCOATS, OVERSHOES, TENNIS SLIPPERS, RUBBER BOOTS, GARDEN HOSE, AND RUBBER BULBS. FRANK H. BINNINGER, Cleveland, Ohio.
Filed December 23, 1921. Serial No. 157,054. PUBLISHED MARCH 14, 1922.
- 156,841. CHOCOLATE CANDY. BISHOP & COMPANY, Los Angeles, Calif.
Filed December 19, 1921. Serial No. 156,882. PUBLISHED APRIL 25, 1922.
- 156,842. SALMON IN CANS OR IN THE BRINE. FREDERIC BLANK & Co., New York, N. Y.
Filed September 30, 1921. Serial No. 153,533. PUBLISHED APRIL 11, 1922.
- 156,843. CANDY. HENRY C. BOEHM, Jersey City, N. J.
Filed February 17, 1921. Serial No. 143,679. PUBLISHED APRIL 11, 1922.
- 156,844. CANDY. THE BONITA CO., Fond du Lac, Wis.
Filed December 12, 1921. Serial No. 156,562. PUBLISHED APRIL 18, 1922.
- 156,845. COTTON CLOTH IN THE PIECE, TOWELS, AND TOWELING. BOOTT MILLS, Lowell, Mass.
Filed January 3, 1922. Serial No. 157,408. PUBLISHED APRIL 25, 1922.
- 156,846. COOKING DISHES FOR TOY STOVES. GEORGE BORGFELDT & Co., New York, N. Y.
Filed March 10, 1922. Serial No. 160,481. PUBLISHED APRIL 25, 1922.
- 156,847. FIREWORKS. BUETTLELL BROTHERS COMPANY, Dubuque, Iowa.
Filed February 4, 1922. Serial No. 158,850. PUBLISHED APRIL 25, 1922.
- 156,848. CANE SIRUP AND CORN SIRUP MIXED FOR FOOD PURPOSES. BURNS SYRUP COMPANY, Macon, Ga.
Filed November 1, 1921. Serial No. 154,860. PUBLISHED APRIL 4, 1922.
- 156,849. CERTAIN ARTICLES OF CLOTHING. EUGENE BYRNES, New York, N. Y.
Filed October 8, 1921. Serial No. 153,868. PUBLISHED APRIL 18, 1922.
- 156,850. CERTAIN NAMED CHEMICALS AND DENTAL PREPARATIONS. THE L. D. CAULK COMPANY, Milford, Del.
Filed August 6, 1921. Serial No. 151,507. PUBLISHED JANUARY 10, 1922.
- 156,851. COFFEE. CENTRAL COFFEE CO. INC., Brooklyn, N. Y.
Filed October 12, 1921. Serial No. 154,011. PUBLISHED APRIL 4, 1922.
- 156,852. CANDY. HARRY B. CHALMERS, New York, N. Y.
Filed October 3, 1921. Serial No. 153,784. PUBLISHED APRIL 4, 1922.
- 156,853. FOOD RELISHES—NAMELY, MAYONNAISE AND RUSSIAN DRESSING. CHEVY CHASE FOOD PRODUCTS CO., Washington, D. C.
Filed July 19, 1921. Serial No. 150,592. PUBLISHED APRIL 11, 1922.
- 156,854. PREPARATIONS FOR COAGULATING OR CURDLING MILK. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y.
Filed December 28, 1920. Serial No. 141,565. PUBLISHED APRIL 4, 1922.
- 156,855. TABLE SIRUP. CROKER PACKING CO., San Francisco, Calif.
Filed December 7, 1921. Serial No. 156,358. PUBLISHED APRIL 18, 1922.

156,856. STEAM COOKING KETTLES. CURTIS MANUFACTURING COMPANY, Los Angeles, Calif.

Filed November 1, 1921. Serial No. 154,862. PUBLISHED APRIL 25, 1922.

156,857. COCOA BUTTER. DAARNHOUWER & Co., INC., New York, N. Y.

Filed December 7, 1921. Serial No. 156,360. PUBLISHED APRIL 18, 1922.

156,858. BUTTER, CONDENSED MILK, AND EVAPORATED MILK. DAIRYMEN'S LEAGUE CO-OPERATIVE ASSOCIATION, INC., Utica, N. Y.

Filed June 27, 1921. Serial No. 149,687. PUBLISHED NOVEMBER 29, 1921.

156,859. TABLE SIRUP. MORTIMER O. DANTZLER, Orangeburg, S. C.

Filed December 22, 1921. Serial No. 157,026. PUBLISHED APRIL 18, 1922.

156,860. APRONS. MINER P. DUGGAN, Sioux City, Iowa.

Filed August 23, 1921. Serial No. 152,069. PUBLISHED MARCH 28, 1922.

156,861. CARBON AND HIGH-SPEED STEEL TWIST DRILLS, REAMERS, FILES, RASPS, TAPS, SCREWING DIES, AND DIE HOLDERS. DYKTOR BROTHERS INC., New York, N. Y.

Filed November 3, 1921. Serial No. 154,969. PUBLISHED MARCH 7, 1922.

156,862. CIGARS. OTTO EISENLOHR & BROS. INCORPORATED, Philadelphia, Pa.

Filed January 17, 1922. Serial No. 158,036. PUBLISHED APRIL 25, 1922.

156,863. INSECT FLUID. EMERSON PHARMACEUTICAL LABORATORIES, West Hoboken, N. J.

Filed October 26, 1921. Serial No. 154,585. PUBLISHED FEBRUARY 7, 1922.

156,864. FOOD PRODUCTS—VIZ, SMOKED SARDINES. ISAAC EPSTEIN, Newark, N. J.

Filed December 16, 1921. Serial No. 156,783. PUBLISHED APRIL 25, 1922.

156,865. WOMEN'S, MISSES', AND CHILDREN'S WEARING APPAREL—VIZ, DRESSES AND FROCKS. GEORGE FARKAS, New York, N. Y.

Filed October 11, 1921. Serial No. 153,973. PUBLISHED APRIL 25, 1922.

156,866. LADIES' HATS. FINK-CIMIOTTI, INC., New York, N. Y.

Filed September 16, 1921. Serial No. 152,993. PUBLISHED APRIL 18, 1922.

156,867. FRUIT FRAPPÉ. RICHARD FRANK, doing business as Richard Frank & Co., New York, N. Y.

Filed March 5, 1921. Serial No. 144,319. PUBLISHED APRIL 25, 1922.

156,868. A TABLE-BOARD GAME PLAYED WITH PIECES. GAMECRAFT AND TOY COMPANY, New York, N. Y.

Filed December 8, 1921. Serial No. 156,446. PUBLISHED APRIL 25, 1922.

156,869. TIRE RETREADS OF RUBBER AND FABRIC IN THE PIECE. THE GENERAL TIRE AND RUBBER COMPANY, Akron, Ohio.

Filed March 17, 1921. Serial No. 144,858. PUBLISHED DECEMBER 27, 1921.

156,870. A RAIN GARMENT COMPRISING A COMBINED HOOD AND CAPE. R. M. GOLDFREDRICK, doing business as R. M. Goldfredrick Co., Chicago, Ill.

Filed September 12, 1921. Serial No. 152,844. PUBLISHED APRIL 25, 1922.

156,871. MOTOR-DRIVEN AND HAND-DRAWN FIRE EXTINGUISHERS AND CHEMICAL FIRE ENGINES. BERNARD J. GOLDSTEIN, doing business under the name of Ajax Fire Engine Works, Brooklyn, N. Y.

Filed October 15, 1921. Serial No. 154,144. PUBLISHED APRIL 25, 1922.

156,872. DRESSES. NAT GOLDSTON & Co., INC., New York, N. Y.

Filed September 20, 1921. Serial No. 153,137. PUBLISHED APRIL 11, 1922.

156,873. CHILDREN'S SUITS AND DRESSES. GOTHAM NOVELTY Co., New York, N. Y.

Filed December 31, 1921. Serial No. 157,368. PUBLISHED APRIL 11, 1922.

156,874. CERTAIN ARTICLES OF CLOTHING. O. F. GRAB & Co., New York, N. Y.

Filed October 7, 1921. Serial No. 153,840. PUBLISHED APRIL 18, 1922.

156,875. CHOCOLATES. HEIDELBERGER CONFECTIONERY Co., Philadelphia, Pa.

Filed December 14, 1921. Serial No. 156,690. PUBLISHED APRIL 25, 1922.

156,876. NONALCOHOLIC, MALTLESS EXTRACTS, COLORS, AND FLAVORS FOR SOFT DRINKS. ROBERT HEINRICHSHOFEN, doing business under the trade name of The West India Manufacturing Co., St. Louis, Mo.

Filed October 25, 1921. Serial No. 154,561. PUBLISHED APRIL 25, 1922.

156,877. [WITHDRAWN.]

156,878. BOW NECKTIES. HEWES & POTTER, Boston, Mass.

Filed August 23, 1921. Serial No. 152,073. PUBLISHED APRIL 25, 1922.

156,879. CERTAIN NAMED GOLF SUPPLIES. HOLMAC, INC., New York, N. Y.

Filed October 20, 1921. Serial No. 154,365. PUBLISHED APRIL 25, 1922.

156,880. GOLF BALLS. HOLMAC, INC., New York, N. Y.

Filed February 10, 1922. Serial No. 159,152. PUBLISHED APRIL 25, 1922.

156,881. A NONALCOHOLIC, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND SIRUP FOR MANUFACTURING SAID BEVERAGE. HURTY-PECK & COMPANY, Indianapolis, Ind.

Filed January 3, 1921. Serial No. 141,779. PUBLISHED APRIL 26, 1921.

156,882. SKATES. INTERNATIONAL DEVELOPMENT COMPANY, Boston, Mass.

Filed March 16, 1922. Serial No. 160,763. PUBLISHED APRIL 25, 1922.

156,883. MINERAL WATER. ISLE OF WIGHT WATER COMPANY, Dover, Del., and Philadelphia, Pa.

Filed January 20, 1922. Serial No. 158,185. PUBLISHED APRIL 25, 1922.

156,884. COFFEE. THE JOHNSON-LAYNE COFFEE COMPANY, St. Louis, Mo.

Filed December 23, 1921. Serial No. 157,066. PUBLISHED APRIL 25, 1922.

156,885. MATCHES. JÖNKÖPINGS OCH VULCANS TANDSTICKSFABRIKSAKTIEBOLAG, Jonkoping, Sweden.

Filed December 29, 1921. Serial No. 157,274. PUBLISHED APRIL 4, 1922.

156,886. CERTAIN NAMED TOYS. KELMET CORPORATION, New York, N. Y.

Filed March 4, 1922. Serial No. 160,195. PUBLISHED APRIL 25, 1922.

156,887. CHEWING GUM. JOSEPH G. KITCHELL, New York, N. Y., assignor to Apple Gum Company, Inc., New York, N. Y., a Corporation of Delaware.

Filed October 28, 1921. Serial No. 154,696. PUBLISHED APRIL 11, 1922.

156,888. CHEWING GUM. JOSEPH G. KITCHELL, New York, N. Y., assignor to Apple Gum Company, Inc., New York, N. Y., a Corporation of Delaware.

Filed December 10, 1921. Serial No. 156,535. PUBLISHED APRIL 18, 1922.

- 156,889. NONALCOHOLIC MALTLESS BEVERAGE OR DRINK. MAX LEIBER & COMPANY, Donora, Pa.
Filed January 31, 1922. Serial No. 158,684. PUBLISHED APRIL 25, 1922.
- 156,890. AUTOMOBILES. LEXINGTON MOTOR COMPANY, Connersville, Ind.
Filed July 2, 1921. Serial No. 149,969. PUBLISHED AUGUST 16, 1921.
- 156,891. WOMEN'S AND GIRLS' WOVEN AND TEXTILE UNDERWEAR, SHIRT WAISTS, INFANTS' WOVEN AND TEXTILE UNDERWEAR AND DRESSES. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed October 8, 1921. Serial No. 153,880. PUBLISHED APRIL 18, 1922.
- 156,892. COTTON PIECE GOODS. MASSACHUSETTS COTTON MILLS, Boston, Mass.
Filed December 27, 1921. Serial No. 157,161. PUBLISHED APRIL 25, 1922.
- 156,893. CHOCOLATES, CHOCOLATE BARS, AND CHOCOLATE NUT BARS. MERCKENS INC., New Brunswick, N. J.
Filed March 12, 1921. Serial No. 144,679. PUBLISHED APRIL 4, 1922.
- 156,894. LADIES' AND MISSES' DRESSES. MORRIS NAGEL & Co., Inc., New York, N. Y.
Filed September 14, 1921. Serial No. 152,928. PUBLISHED APRIL 11, 1922.
- 156,895. COFFEE. NASH COFFEE COMPANY, Minneapolis, Minn.
Filed December 5, 1921. Serial No. 156,292. PUBLISHED APRIL 18, 1922.
- 156,896. FLAVORING EXTRACTS FOR NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS. NATIONAL FRUIT FLAVOR CO., New Orleans, La.
Filed February 13, 1920. Serial No. 128,368. PUBLISHED JUNE 8, 1920.
- 156,897. COSMETIC LOTION FOR BEAUTIFYING THE SKIN AND ERADICATING BLEMISHES THEREOF. THOMAS J. NEWLYN, doing business as The Beauty-peel Cosmetic Co., El Paso, Tex.
Filed February 2, 1922. Serial No. 158,791. PUBLISHED APRIL 25, 1922.
- 156,898. FRESH DECIDUOUS FRUITS. NORTHERN CALIFORNIA FRUIT CO., Lodi, Calif.
Filed October 5, 1920. Serial No. 137,955. PUBLISHED APRIL 4, 1922.
- 156,899. NONALCOHOLIC MALTLESS BEVERAGE OF PURE FRUIT JUICES, BEING A BLEND OF APPLE JUICE AND LOGANBERRY JUICE. NORTHWEST FRUIT PRODUCTS CO., Salem, Oreg.
Filed December 29, 1921. Serial No. 157,278. PUBLISHED APRIL 25, 1922.
- 156,900. CANDY. THE NUNNALLY COMPANY, Atlanta, Ga.
Filed December 24, 1921. Serial No. 157,105. PUBLISHED APRIL 25, 1922.
- 156,901. CERTAIN ARTICLES OF CLOTHING. THE OTTENHEIMER, GOLDMAN CO. INC., Baltimore, Md.
Filed September 21, 1921. Serial No. 153,184. PUBLISHED APRIL 11, 1922.
- 156,902. MALT EXTRACT USED BY BAKERS FOR FOOD PURPOSES. PABST CORPORATION, Milwaukee, Wis.
Filed September 3, 1921. Serial No. 152,583. PUBLISHED APRIL 11, 1922.
- 156,903. COTTON PIECE GOODS. PACIFIC MILLS, Boston, Mass.
Filed December 24, 1921. Serial No. 157,106. PUBLISHED APRIL 4, 1922.
- 156,904. CANDY. PACKAGE CONFECTIONERY COMPANY, Boston, Mass.
Filed January 8, 1921. Serial No. 141,988. PUBLISHED APRIL 11, 1922.
- 156,905. CANDY. PALMER CANDY CO., Sioux City, Iowa.
Filed October 19, 1921. Serial No. 154,323. PUBLISHED APRIL 4, 1922.
- 156,906. UNDERSHIRTS, DRAWERS, UNION SUITS, WAISTS, NEGLIGEE SHIRTS, PYJAMAS, AND NIGHT ROBES. ISIDOR PANITZ, Baltimore, Md.
Filed September 22, 1921. Serial No. 153,225. PUBLISHED APRIL 11, 1922.
- 156,907. HAM. PATRICK YOUNG COMPANY, Richmond, Va.
Filed September 23, 1921. Serial No. 153,278. PUBLISHED APRIL 4, 1922.
- 156,908. PLUSH GOODS IN THE PIECE. FRED PEARSON & COMPANY, Philadelphia, Pa.
Filed January 7, 1922. Serial No. 157,633. PUBLISHED APRIL 4, 1922.
- 156,909. MEN'S WORK SHIRTS, BOYS' WORK SHIRTS, BOYS' BLOUSES AND PLAY SUITS. J. C. PENNEY COMPANY, Salt Lake City, Utah, and New York, N. Y.
Filed September 26, 1921. Serial No. 153,368. PUBLISHED APRIL 18, 1922.
- 156,910. FRUIT MARMALADES, JAMS, CONSERVES, JELLIES, AND FRUIT PRESERVES. PHOEBE GREEN COMPANY, Yakima, Wash.
Filed August 2, 1921. Serial No. 151,288. PUBLISHED APRIL 4, 1922.
- 156,911. FINGER RINGS. CLIFFORD B. POAGE, Columbus, Ohio.
Filed January 16, 1922. Serial No. 158,006. PUBLISHED MAY 2, 1922.
- 156,912. BABY OUTFITS CONSISTING OF DIAPER BAG, WHITE BABY PANTS, FLESH BABY PANTS, CRIB SHEET, CARRIAGE SHEET, AND ABSORBENT BIB. POLKASE MFG. CO., New York, N. Y.
Filed October 12, 1921. Serial No. 154,045. PUBLISHED APRIL 25, 1922.
- 156,913. CANNED FRUITS—VIZ, PEARS, APRICOTS, PEACHES, CHERRIES, PLUMS, AND GRAPES. H. G. PRINCE & Co., Oakland, Calif.
Filed December 7, 1921. Serial No. 156,402. PUBLISHED APRIL 18, 1922.
- 156,914. CANDY. GEORGE L. RASSIAS, Brooklyn, N. Y.
Filed October 26, 1921. Serial No. 154,618. PUBLISHED APRIL 4, 1922.
- 156,915. MEN'S AND BOYS' KNITTED UNDERWEAR IN ONE-PIECE GARMENTS. ROGERS PEET COMPANY, New York, N. Y.
Filed September 27, 1921. Serial No. 153,408. PUBLISHED APRIL 18, 1922.
- 156,916. CERTAIN NAMED TOYS. SACHEM MANUFACTURING COMPANY, INC., Brockton, Mass.
Filed January 21, 1922. Serial No. 158,263. PUBLISHED APRIL 25, 1922.
- 156,917. FLYING TOY. ALFRED L. SALVO, Augusta, Ga.
Filed March 1, 1922. Serial No. 160,028. PUBLISHED APRIL 25, 1922.
- 156,918. CIGARETTES. HARRY LINDSAY SAVORY, London, England; Reginald Shurey, executor of the estate of said Harry Lindsay Savory, deceased, assignor to H. L. Savory and Company Limited, London, England, a Corporation of Great Britain.
Filed December 5, 1919. Serial No. 125,635. PUBLISHED APRIL 25, 1922.
- 156,919. CIGARS. ESTATE OF JOSEPH J. SCHAEFER, Dayton, Ohio.
Filed April 29, 1921. Serial No. 146,990. PUBLISHED APRIL 25, 1922.
- 156,920. CIGARS. ESTATE OF JOSEPH J. SCHAEFER, Dayton, Ohio.
Filed April 29, 1921. Serial No. 146,991. PUBLISHED APRIL 25, 1922.

156,921. CREAMERY BUTTER, PURE LARD, HAMS, BACONS, SHOULDERS, SAUSAGES, PORK ROLLS, DRIED BEEF, AND CHEESE. THE WM. SCHLUDERBERG-T. J. KURDLE Co., Baltimore, Md.

Filed March 8, 1921. Serial No. 144,478. PUBLISHED APRIL 4, 1922.

156,922. CERTAIN ARTICLES OF CLOTHING. I. SCHOENEMAN, INCORPORATED, Baltimore, Md.

Filed August 23, 1921. Serial No. 152,098. PUBLISHED MARCH 28, 1922.

156,923. NATURAL SPRING WATER. SHELL ROCK SPRING WATER Co. INC., Perth Amboy, N. J.

Filed February 4, 1922. Serial No. 158,897. PUBLISHED APRIL 25, 1922.

156,924. COTTON GOODS IN THE PIECE. WM. SIMPSON, SONS & Co., Philadelphia, Pa.

Filed September 2, 1921. Serial No. 152,523. PUBLISHED APRIL 4, 1922.

156,925. FABRIC KNOWN AS A ROYAL TURKISH RUG. W. T. SMITH & SON, INC., Philadelphia, Pa.

Filed January 25, 1922. Serial No. 158,458. PUBLISHED APRIL 25, 1922.

156,926. CERTAIN NAMED MEDICINAL PREPARATIONS. MAGGIE S. SNOW, Charlottesville, Va.

Filed November 17, 1921. Serial No. 155,524. PUBLISHED MARCH 14, 1922.

156,927. LADIES' HATS. HARRY-SOLOMONS & SON, New York, N. Y.

Filed September 29, 1921. Serial No. 153,523. PUBLISHED APRIL 18, 1922.

156,928. CANDIES. SPRINGER CHOCOLATE Co. INC., New York, N. Y.

Filed November 19, 1921. Serial No. 155,644. PUBLISHED APRIL 25, 1922.

156,929. LADIES' TRIMMED HATS. STAADACKER & Co., Seattle, Wash.

Filed August 22, 1921. Serial No. 152,044. PUBLISHED APRIL 25, 1922.

156,930. CANNED FISH, CANNED FRUITS, AND CANNED VEGETABLES. STEELE PACKING COMPANY, San Diego, Calif.

Filed September 28, 1921. Serial No. 153,481. PUBLISHED APRIL 11, 1922.

156,931. STEAM-TRAP AIR VALVES FOR GENERAL USE. T. S. TODD & Co., New York, N. Y.

Filed October 19, 1921. Serial No. 154,337. PUBLISHED APRIL 25, 1922.

156,932. COTTON AND WOOL BLANKETS. ESTATE OF JOHN E. TOWNSEND, Milton, N. H.

Filed September 28, 1921. Serial No. 153,484. PUBLISHED APRIL 11, 1922.

156,933. COTTON GOODS IN THE PIECE. TRION COMPANY, Trion, Ga.

Filed December 27, 1921. Serial No. 157,187. PUBLISHED APRIL 25, 1922.

156,934. CERTAIN OIL-WELL TOOLS AND EQUIPMENT. UNION TOOL COMPANY, Torrance, Calif.

Filed March 4, 1922. Serial No. 160,215. PUBLISHED APRIL 25, 1922.

156,935. MEN'S, LADIES', AND CHILDREN'S COTTON, SILK, FIBER SILK, AND WOOL HOSE. LATIMER C. VAUGHAN, New York, N. Y.

Filed October 3, 1921. Serial No. 153,705. PUBLISHED APRIL 18, 1922.

156,936. LADIES', MISSES', AND CHILDREN'S DRESSES. JOHN WANAMAKER, New York, New York, N. Y.

Filed September 23, 1921. Serial No. 153,272. PUBLISHED APRIL 11, 1922.

156,937. UMBRELLA AND PARASOL FERRULES AND TIES. WANGEE UMBRELLA Co., New York, N. Y.

Filed November 2, 1921. Serial No. 154,943. PUBLISHED MARCH 28, 1922.

156,938. COTTON PIECE GOODS. WARE SHOALS MFG. Co., Ware Shoals, S. C.

Filed December 27, 1921. Serial No. 157,200. PUBLISHED APRIL 25, 1922.

156,939. CANDY AND CHEWING GUM. JAMES WARRING WOOD, Poughkeepsie, N. Y.

Filed May 23, 1921. Serial No. 148,101½. PUBLISHED APRIL 4, 1922.

156,940. FLAVORING EXTRACTS FOR FOOD PURPOSES. WEBB MANUFACTURING COMPANY, Nashville, Tenn.

Filed September 14, 1921. Serial No. 152,940. PUBLISHED FEBRUARY 14, 1922.

156,941. SILKWORM GUT LEADERS, AND LEADERS MADE OF OTHER MATERIAL FOR ARTIFICIAL FISH BAITS. THE WEBER LIFELIKE FLY Co., Stevens Point, Wis.

Filed February 8, 1922. Serial No. 159,067. PUBLISHED APRIL 25, 1922.

156,942. CANDY. WESTMORELAND CANDY COMPANY, Richmond, Va.

Filed November 14, 1921. Serial No. 155,379. PUBLISHED APRIL 25, 1922.

156,943. WOVEN FABRIC UNION SUITS, SHIRTS, AND DRAWERS, KNITTED UNION SUITS, SHIRTS, AND DRAWERS; RUNNING PANTS, NIGHT ROBES, PYJAMAS, AND NEGLIGEE SHIRTS. THE F. T. WOODMAN Co., Cambridge, Mass.

Filed October 10, 1921. Serial No. 153,964. PUBLISHED APRIL 25, 1922.

156,944. PEPPER, ALLSPICE, MIXED PICKLING SPICE, CINNAMON, TURMERIC, WHITE PEPPER, GINGER, SAVORY, CLOVES, MUSTARD, CAYENNE PEPPER, THYME, GROUND SAGE, CHILI POWDER, SPANISH PAPRIKA, GROUND NUTMEG, MARJORAM, CURRY POWDER, LEMON AND VANILLA EXTRACT. WORDEN GROCER COMPANY, Grand Rapids, Mich.

Filed April 18, 1921. Serial No. 146,349. PUBLISHED APRIL 11, 1922.

156,945. UNSHELLED, SHELLED, ROASTED, AND SALTED PISTACHIO NUTS. ZALOOM BROTHERS, New York, N. Y.

Filed August 11, 1921. Serial No. 151,695. PUBLISHED APRIL 4, 1922.

156,946. FRESH DECIDUOUS FRUITS, DRIED FRUITS, AND GRAPE SIRUP FOR FOOD PURPOSES. LORENZO ZERILLO, Healdsburg, Calif.

Filed July 14, 1920. Serial No. 134,994. PUBLISHED APRIL 4, 1922.

156,947. MEN'S AND CHILDREN'S HATS AND CAPS. D. E. LOEWE & Co., Danbury, Conn.

Filed August 17, 1921. Serial No. 151,877. PUBLISHED MARCH 28, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 18, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

156,948. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. Inc., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,384.



Particular description of goods.—Fishing Lines.
Claims use since June 2, 1920.

156,949. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. Inc., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,383.



Particular description of goods.—Fishing Lines.
Claims use since Mar. 15, 1919.

156,950. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. Inc., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,380.



Particular description of goods.—Braided Enamelled Japan-Silk Fishing Lines.
Claims use since June 1, 1918.

156,951. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. Inc., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,377.



Particular description of goods.—Braided Enamelled Japan-Silk Fishing Lines.
Claims use since June 8, 1920.

156,952. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,375.



Particular description of goods.—Braided Japan-Silk Enameled Fishing Lines.

Claims use since June 1, 1918.

156,953. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,372.



Particular description of goods.—Enameled Japan-Silk Fishing Lines.

Claims use since June 1, 1918.

156,954. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,365.



Particular description of goods.—Cuttyhunk Bass and Tarpon Fishing Lines.

Claims use since July 29, 1919.

156,955. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,364.



Particular description of goods.—Surfman's Cuttyhunk Fishing Lines.

Claims use since Dec. 24, 1920.

156,956. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,363.



Particular description of goods.—Cuttyhunk Fishing Lines.

Claims use since July 29, 1919.

156,957. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922. Serial No. 164,362.



Particular description of goods.—Irish-Linen Braided Cuttyhunk Fishing Lines.

Claims use since July 29, 1919.

156,958. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922. Serial No. 164,123.

FAMOUS

Particular description of goods.—Snapping Mottoes.
Claims use since about January, 1919.

156,959. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922. Serial No. 164,122.

STANDARD

Particular description of goods.—Snapping Mottoes.
Claims use since 1918.

156,960. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE PISTON RING COMPANY, Muskegon Heights, Mich. Filed Apr. 1, 1922. Serial No. 161,645.

STA-TITE

Particular description of goods.—Piston Rings.
Claims use since July 1, 1912.

156,961. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE RICH PUMP AND LADDER COMPANY, Cincinnati, Ohio. Filed Mar. 24, 1922. Serial No. 161,202.

RICH

Particular description of goods.—Ladders.
Claims use since Dec. 1, 1901.

156,962. (CLASS 12. CONSTRUCTION MATERIALS.) STELWAGON MANUFACTURING Co., Philadelphia, Filed Mar. 8, 1922. Serial No. 160,365.

QUAKER CITY

Particular description of goods.—Felt Roofing.
Claims use since about Jan. 1, 1912.

156,963. (CLASS 12. CONSTRUCTION MATERIALS.) STELWAGON MANUFACTURING Co., Philadelphia, Filed Mar. 8, 1922. Serial No. 160,364.

STORMTITE

Particular description of goods.—Felt Roofing.
Claims use since about Jan. 1, 1913.

156,964. (CLASS 46. FOODS AND INGREDIENTS.) IRVING BERKENFIELD, doing business under the name of The Field Laboratories, Erie, Pa. Filed Dec. 7, 1921. Serial No. 156,353.

Field's

Particular description of goods.—Food-Flavoring extracts, Spices, and Sauces.
Claims use since February, 1920.

156,965. (CLASS 46. FOODS AND INGREDIENTS.) NORTHWESTERN YEAST COMPANY, Chicago, Ill. Filed Sept. 19, 1921. Serial No. 153,106.

MRS. McCULLOUGH'S

Particular description of goods.—Yeast.
Claims use since January, 1907.

156,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PERUNA COMPANY, Columbus, Ohio. Filed Feb. 19, 1921. Serial No. 143,835.

NO-AKE

Particular description of goods.—Medicinal Preparation for Use in the Relief of Headaches, Nervousness, and Other Disorders.

Claims use since Jan. 1, 1921.

156,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PERUNA COMPANY, Columbus, Ohio. Filed Feb. 19, 1921. Serial No. 143,834.

NO-AKE

Particular description of goods.—Medicinal Preparation for Use in the Relief of Headaches, Nervousness, and Other Disorders.

Claims use since Jan. 1, 1921.

156,968. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDREA H. TRIPPI, Buffalo, N. Y. Filed Jan. 17, 1921. Serial No. 142,365.

SkinEase

Particular description of goods.—A Preparation for the Treatment of Skin Diseases.

Claims use since Sept. 15, 1920.

156,969. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AUTO TRUCK SERVICE CO., INC., Milwaukee, Wis. Filed July 12, 1920. Serial No. 134,797.

GIANT EASY LIFT HOIST

Particular description of goods.—Dump Carts.
Claims use since Jan. 15, 1919.

156,970. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ERNEST & HERMAN LEVY, INC., New York, N. Y. Filed May 22, 1920. Serial No. 132,782.



Particular description of goods.—Ribbons for Making Camisoles.

Claims use since Aug. 1, 1919.

156,971. CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAFANDSHUR CHEMICAL CO., INC., New York, N. Y. Filed Nov. 25, 1919. Serial No. 125,307.

SafandShur

Particular description of goods.—Fire-Extinguisher Fluid.

Claims use since Aug. 23, 1919.

156,972. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) AMERICAN WHOLESALE CORPORATION (BALTIMORE BARGAIN HOUSE), Baltimore and Cumberland, Md. Filed Sept. 25, 1919. Serial No. 123,092.

American Wholesale Corporation

(Baltimore Bargain House)

Particular description of goods.—Crockery, Cooking Utensils, Flowerpots and Porcelain and Earthenware Vases, Porcelain Table and Kitchen Ware, Jardinières, Porcelain Toilet Sets, and Crockery Dishes.

Claims use since June 27, 1919.

156,973. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WYATT BROS., Chicago, Ill. Filed July 24, 1919. Serial No. 120,895.

High Melt

Particular description of goods.—Cottonseed-Oil Stearin.
Claims use since about the 1st of May, 1918.

LABELS

REGISTERED JULY 18, 1922.

- 24,711.—*Title*: "AJEM CORN PASTE." (For a Proprietary Medicine for the Removal of Corns and the Like.) MATTHEW A. AJEMIAN, West New York, N. J. Filed April 14, 1922.
- 24,712.—*Title*: "AMERICAN 'E' PRODUCTS COMPANY." (For Powdered Soups.) AMERICAN 'E' PRODUCTS COMPANY, Minneapolis, Minn. Filed November 11, 1918.
- 24,713.—*Title*: "WHEATSWORTH WHOLE WHEAT GRAHAM CRACKERS." (For Crackers.) F. H. BISCUIT COMPANY, New York, N. Y. Filed June 7, 1922.
- 24,714.—*Title*: "MALTOID MILK-BONE PUPPY FOOD." (For Dog Biscuits.) F. H. BENNETT BISCUIT COMPANY, New York, N. Y. Filed June 7, 1922.
- 24,715.—*Title*: "HARRY'S FLORIDA PECAN ROLL." (For a Nut Confection.) HARRY BERNSTEIN, Tampa, Fla. Filed March 8, 1921.
- 24,716.—*Title*: "JACK'S FISH FERRETS." (For Fishing Tackle.) JOHN R. CUNNINGHAM, Kansas City, Mo. Filed June 9, 1922.
- 24,717.—*Title*: "JACK'S BAIT WIGGLE TAIL." (For Containers for Fishing Bait.) JOHN R. CUNNINGHAM, Kansas City, Mo. Filed June 9, 1922.
- 24,718.—*Title*: "DEATH-BLO CERTAINLY ANNIHILATES PESTS." (For Packages Containing a Preparation for Destroying Insects.) DANIEL F. DAVENPORT, under the name of The Davenport Company, Americus, Ga. Filed March 22, 1922.
- 24,719.—*Title*: "DEXTER'S MOTHER'S BREAD." (For Bread.) EUGENE A. DEXTER, Springfield, Mass. Filed December 23, 1921.
- 24,720.—*Title*: "VARICOSOL." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) PETER T. DONOVAN, doing business under the name of P. T. Donovan Co., New York, N. Y. Filed May 19, 1922.
- 24,721.—*Title*: "FLOR DE GARCIA & CO. HAVANA." (For Cigars, Cigarettes, and Tobacco.) JOSEPH A. GARCIA & COMPANY, New York, N. Y. Filed June 7, 1922.
- 24,722.—*Title*: "G M C METALLIC GREASE." (For Lubricating Grease.) GEARO MFG. CO., Quincy, Ill. Filed January 27, 1922.
- 24,723.—*Title*: "GRIER'S GRINDING COMPOUND." (For Compounds for Grinding in Bearings.) THE GRIBURN CO., INC., Philadelphia, Pa. Filed June 5, 1922.
- 24,724.—*Title*: "DE LUXE VANITY." (For Powder Puffs.) HOCHSCHILD CORPORATION, Chicago, Ill. Filed February 23, 1922.
- 24,725.—*Title*: "HOLMES HONEY POPS." (For Confectionery.) HARRY G. HOLMES, doing business as The Holmes Confectionery Company, Middletown, Conn. Filed June 7, 1922.
- 24,726.—*Title*: "ON THE TRAIL OF A GOOD TIRE." (For Vehicle Tires, Being Applied to the Boxes or Packages Containing the Same.) THE IDEAL TIRE AND RUBBER COMPANY, Cleveland, Ohio. Filed January 26, 1920.
- 24,727.—*Title*: "VITAMINE TOMATOES." (For Canned Tomatoes.) KEMP BROS. PACKING CO., Frankford, Ind. Filed April 24, 1922.
- 24,728.—*Title*: "GRAINO." (For Soap.) KENNEL PRODUCTS CORPORATION, New York, N. Y. Filed August 8, 1922.
- 24,729.—*Title*: "KOREX." (For Soap.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed June 1, 1922.
- 24,730.—*Title*: "KENDENE." (For Soap.) KENNEL PRODUCTS CORPORATION, New York, N. Y. Filed August 8, 1922.
- 24,731.—*Title*: "MURRAY'S FRAGRANT CREAM LET FOR BEAUTIFYING THE COMPLEXION." (For 25ct., 35ct., and 50ct. Size Bottles Containing Preparation for Beautifying the Complexion.) METT L. MURRAY, doing business under the name of Murray's Pharmacy, Americus, Ga. Filed May 1, 1922.
- 24,732.—*Title*: "PURE SILK." (For Hosiery.) RIP SILK HOSIERY MILLS INC., New York, N. Y. Filed June 8, 1922.
- 24,733.—*Title*: "STYLE NO. 2016, THE READY-TO-SEW PACKAGE." (For an Envelope Containing Preparation for Sewing Ready-to-Sew Garments.) THE READY-TO-SEW PACKAGE CO., INC., New York, N. Y. Filed May 1, 1922.
- 24,734.—*Title*: "RUGGIERO'S DENTATURA." (For Bottles or Cartons Containing a Mouth Wash.) TONIO RUGGIERO, Malden, Mass. Filed April 5, 1922.
- 24,735.—*Title*: "SQUARE D SAFETY SWITCH." (For Electric Switches.) SQUARE D CO., Detroit, Mich. Filed May 2, 1922.
- 24,736.—*Title*: "OLD VIRGINIA BRUNSWICK STEW." (For Canned Old Virginia Brunswick Stew.) FRANKLIN LIN STERDIVANT, Brownsville, Tenn. Filed June 1, 1922.
- 24,737.—*Title*: "SUNSHINE MACARONI." (For Macaroni.) SUNSHINE MACARONI MFG. CO. INC., Brooklyn, N. Y. Filed June 6, 1922.
- 24,738.—*Title*: "A C T CHEMICAL PRODUCTS." (For Pieces of Paper or Other Material, Which are Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) ALLAN THAYER, Detroit, Mich. Filed June 3, 1920.
- 24,739.—*Title*: "KILL-O-PEST." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) UNIVERSAL PRODUCTS CO., Los Angeles, Calif. Filed May 1, 1922.
- 24,740.—*Title*: "ALL SEASON VEIL." (For Veils.) AUGUSTUS A. WEST, doing business under the name of West Electric Hair Curler Co., Philadelphia, Pa., assignor to David L. Short, Philadelphia, Pa. Filed May 31, 1919.
- 24,741.—*Title*: "THE WORLD'S FINEST FRUIT." (For Fruit Wrappers.) HENRY R. WILLIAR, San Francisco, Calif. Filed April 19, 1922.
- 24,742.—*Title*: "ZIEGLER'S AERO KISSES." (For Candy Kisses.) GEO. ZIEGLER CO., Milwaukee, Wis. Filed April 29, 1922.

PRINTS

REGISTERED JULY 18, 1922.

-
- 6,210.—*Title:* "VENUS THIN LEADS." (For Advertising Purposes for Lead Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed June 7, 1922.
- 6,211.—*Title:* "COAL." (For Advertising Purposes for Coal.) FRANK A. BASSETT, Holyoke, Mass. Filed May 12, 1922.
- 6,212.—*Title:* "THE WINNER'S CUP." (For Advertising Purposes for Gold and Silver Ware.) CHRICHTON BROS., New York, N. Y. Filed March 23, 1921.
- 6,213.—*Title:* "LEAPING BASS NO. 2." (For Advertising Purposes for Fishing Tackle.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 9, 1922.
- 6,214.—*Title:* "LEAPING BASS NO. 1." (For Advertising Purposes for Fishing Tackle.) THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed June 9, 1922.
- 6,215.—*Title:* "MADE MECHANICALLY CORRECT." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) MARIETTA MANUFACTURING COMPANY, Point Pleasant, W. Va. Filed March 19, 1920.
- 6,216.—*Title:* "SCIENTIFIC CONTROL vs. INDISCRIMINATE FEEDING." (For Advertising Purposes for Mead's Infant Diet Materials.) MEAD JOHNSON & COMPANY, Evansville, Ind. Filed June 3, 1922.
- 6,217.—*Title:* "FEATURING THE NON RIP SILK HO-SIERY." (For Advertising Purposes for Hosiery.) NON-RIP SILK HO-SIERY MILLS INC., New York, N. Y. Filed June 8, 1922.
- 6,218.—*Title:* "SPORT TROUSERS." (For Advertising Purposes for White Duck Clothing.) THE JAMES E. RICHARDS COMPANY, Dayton, Ohio. Filed June 5, 1922.
- 6,219.—*Title:* "SINGER SEWING MOTOR." (For Advertising Purposes for Sewing Motors.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed May 19, 1922.
- 6,220.—*Title:* "SINGER PORTABLE ELECTRIC." (For Advertising Purposes for Portable Electric Sewing Machines.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed May 19, 1922.
- 6,221.—*Title:* "SINGER ELECTRIC FANS." (For Advertising Purposes for Electric Fans.) THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J. Filed May 19, 1922.
- 6,222.—*Title:* "DANDERCIDE." (For Advertising Purposes for Hair Tonic.) L. J. WANTLAND, Oklahoma, Okla. Filed April 26, 1921.
-

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

IN RE SCHOLLENBERGER.

No. 1463. Decided March 6, 1922.

1. REJECTION—NEW GROUNDS—FAILURE TO REMAND WHEN NOT REQUESTED IS NOT ERROR.

Where the applicant did not request the Commissioner, who rejected the application on a ground not considered by the Examiner, to remand the case to the Examiner for amendment of the claims, but instead appealed from the Commissioner's decision, he cannot complain of the Commissioner's failure to remand.

2. PATENTABILITY—DOUBT RESOLVED IN FAVOR OF APPLICANT.

Where there is doubt as to the patentability of a claim, *Held* that the doubt should be resolved in favor of the applicant.

Mr. Paul Finckel and Mr. Ray P. Scott for Schollenberger.

Mr. T. A. Hosteller for the Commissioner of Patents.

SMYTH, C. J.:

This is an appeal from a decision of the Commissioner of Patents rejecting an application for a patent. The structure upon which the patent is sought is described in one claim, which reads as follows:

In a sanitary closet, the combination with a room, of a toilet bowl therein, having a seat and hinged cover, a tank below said bowl, a relatively large tubular conducting member between said bowl and said tank, a primary vent pipe leading from the upper portion of said tank upwardly through said room, immediately back of the bowl and adjacent to it, and a comparatively small by-pass or secondary vent pipe connecting the upper rear interior of said bowl at the point nearest said primary vent pipe, with said primary vent pipe at an angle of substantially forty-five degrees.

The Primary Examiner and the Examiners in Chief denied the application, on the ground that the invention described was anticipated by patents to three persons, while the Commissioner proceeded on the assumption that—

the specific coaction between the various details recited, which is necessary to a patentable combination, was not shown.

Appellant says that since his application was not twice rejected or rejected at all by the Primary Examiner on the ground given by the Commissioner, the latter should have remanded the case to the former with directions that he, the appellant, be

permitted to modify his claims so as to obviate newly-raised objection. But the ready answer to this is that he did not ask that this be done, he appealed from the Commissioner to this court. It cannot be properly said that the Commissioner erred in failing to do that which he was not requested to do.

It seems to be the settled law that to constitute a combination, as distinguished from an aggregation, it is essential that there should be some joint operation performed by the combination which produces a new and useful result. (*American Cyanide & Chemical Co. v. Helmstetter*, 142 Fed., 272 O. G., 913.) But does not the device we are considering produce such a result? Dealing with this subject are affidavits of two disinterested engineers of broad experience in the heating and ventilating art. One of them is a graduate of the Massachusetts Institute of Technology, and the other, of the Nebraska State University. For nearly eighteen years they have studied problems of ventilation and movements of air. Each engineer carefully examined the references cited by the Commissioner and compared them, element by element, with the Schollenberger device. They pointed out the differences between the latter and the references, and the differences were real, fundamental, and essential. According to them, the device of the applicant is original and accomplishes a new result. There are more than three thousand of the device in use, a fact which tends to corroborate the testimony of the engineers that the device achieves results not reached by those of the references. We should be given to this on the question of patentability. (*In re Thomson*, 26 App. D. C., 419, 120 O. G., 2756.) It would seem that Schollenberger has succeeded where others have failed, and this is evidence of invention. (*In re Rowell*, 48 App. D. C., 238, 241; 259 O. G., 778, and cases cited.)

In view of these things we have serious doubts as to the patentability of the device. And, following our rule that where there is such doubt it should be resolved in favor of the applicant, we hold that the claim of the issue is patentable, and accordingly reverse the decision of the Commissioner.

Reversed.

U. S. Circuit Court of Appeals—Seventh Circuit.

CONDON CO. V. CORRUGATED BAR CO.

Decided March 18, 1922.

[279 Fed. Rep., 867.]

1. PATENTS—1,005,756, CLAIMS 2, 4, 6, 7, FOR REINFORCED CONCRETE FLOOR CONSTRUCTION, HELD INVALID.

The Sinks patent, No. 1,005,756, claims 2, 4, 6, and 7, for an improvement in reinforced construction of floors resting on supporting posts, which differed from prior patents by substituting rods for heavy meshed wire and by a different arrangement of the rods, *Held* void for want of invention.

2. SAME—FACILITY IN ESTIMATING STRENGTH OR COST DOES NOT MAKE PATENTABLE A STRUCTURE NOT OTHERWISE DISCLOSING INVENTION.

The fact that a change in the arrangement of reinforcing rods for concrete floor construction made it easier to estimate the required strength of the materials and the cost of construction does not make it patentable, where the changes in the structure itself did not involve invention.

APPEAL from the District Court of the United States for the Eastern Division of the Northern District of Illinois.

Suit for infringement of a patent by the Condon Company against the Corrugated Bar Company. From a decree dismissing the bill (256 Fed., 672), complainant appeals. Affirmed.

Mr. Melville Church and *Mr. Arthur M. Hood* for the appellant.

Mr. Wallace R. Lane for the appellee.

Before BAKER, ALSCHULER, and EVANS, Circuit Judges.

ALSCHULER, *Cir. J.*:

The action was for infringement of Sinks patent, No. 1,005,756, October 10, 1911. On the hearing claims 2, 4, 6 and 7 were relied on. The district court dismissed the bill for want of equity on the ground of invalidity.

[1] The patent is in the art of reinforced concrete construction of floors resting upon supporting posts. The patent calls it a "monolithic structure," the reinforced concrete of the supporting posts and of the floors being molded together. The claimed achievement is through such an arrangement of reinforcing bars, extending rectangularly from post to post, crossing each other above the posts, whereby this part of the structure will constitute what in the patent is termed "inclosing slabs," constituting part of the floor, and at the same time affording support for the intervening floor filling the space between these "inclosing slabs." The intervening slabs are directly strengthened and supported by transverse bars extending between and supported by the inclosing slabs, and are disposed within the slab, so as to be where the greatest tensile strength is necessary. But when completed the entire floor is in fact a single slab, without any deep supporting beams below, save only as the widely flaring post tops of the patent in a measure serve the function of such beams.

Advantage is claimed, not only in doing away with deep floor beams or girders, but also in en-

abling engineers more readily and accurately to figure strains and stresses. Reinforced-concrete floors, supported by succession of posts, without the deep floor beams or girders, were not new with Sinks. Norcross—Patent No. 698,542, 1902—showed such a floor. It does not appear that his supporting posts were monolithic with the floors; but this is a mere detail of construction, wherein patentability does not reside, and is not claimed. His reinforcing agent was not rods; but he describes a heavy meshed wire, and extends it rectangularly from post to post, thus having in the same sense as Sinks inclosing slabs, in that his heaviest reinforcement is directly from post to post. To substitute rods of varying dimensions, for taking care of the estimated strain, would not involve invention.

Patent No. 1,003,384, to Turner, September 12, 1911, though not necessarily in the prior art, shows a peculiar arrangement of rods just above the posts and for supporting the intervening floor he had rods extending diagonally from post to post instead of rectangularly between the inclosing slabs as in Sinks. He showed the same absence of floor beams and girders. The District Court of New Jersey (236 Fed., 252) held this patent and divisional patent to Turner No. 985,119 invalid, and in sustaining the decree in that case the court of appeals said:

There is to-day neither invention nor novelty in merely placing metal reinforcement in concrete at places at which strains come. The very principle of reinforcement, as the word denotes, is to give force to or strengthen the place that is weak by adding something that is strong. Invention in reinforcement is to be found only in discovering a new principle or in employing new means embodying the old principle. Therefore one striving to find a new principle, or to invent a new means of concrete reinforcement under the old principle, enters a well-known and widely practiced art, and must do something more than care for tensile strains at places where they are known to come. (*Turner v. Lauter Piano Co.*, 248 Fed., 930; 161 C. C. A., 48.)

In *Turner v. Deere & Webber Building Co.* (249 Fed., 752; 161 C. C. A., 662, 8th C. C. A.) the court, passing upon claims of Turner's divisional patent, No. 985,119, said:

The evidence of prior practice in building and prior publications and patents show that little was left for patentable invention in placing the customary pieces of metal here or there, or turning them this way or that, in the mass of concrete.

The decree was sustained, holding the claims there in issue void for want of invention.

[2] As to the contention of greater facility in the Sinks structure for figuring strains and stresses, this would not support the claims of the patent, particularly as no method for figuring them is pointed out by Sinks. We are not aware that an alleged improvement in a structure, not in itself involving invention, would be patentable merely because it might be more easy to estimate its strength, or to figure its cost. From a reading of the opinion of Judge A. L. Sanborn, who heard the case in the district court, we are satisfied that a proper disposition of the case was there made. (256 Fed., 672.)

The decree of the district court is affirmed.

PATENT SUITS.

[Notices under section 4912, Revised Statutes, as amended February 18, 1922.]

682,523, R. Bohn, Blue dye, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

715,662, M. H. Isler, Coloring matters, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

724,789, R. Bohn, Coloring matter, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

734,325, O. Hess, Dyestuff, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

734,866, E. Hepp and C. Hartmann, Dyestuffs, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

739,145, R. Bohn, Dye, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

739,579, R. Bohn, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

753,659, R. Bohn, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

754,768, E. Hepp and E. Wolpert, Dyestuffs, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

787,859, R. H. Scholl and O. Bally, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

796,393, O. Bally, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

809,892, O. Bally and M. H. Isler, Coloring matters, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

818,336, O. Bally and H. Wolff, Dyes, etc., suit filed U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

818,992, O. Bally and M. H. Isler, Coloring matters, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

828,778, R. H. Scholl, Coloring matters, suit June 23, 1922, U. S. D. C., W. D. N. Y., Doc. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

844,914, R. Bohn, Dye, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

856,811, R. H. Scholl, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

863,397, M. Isler and F. Kacer, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

876,810, M. A. Kunz, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

906,367, O. Bally and H. Wolff, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

925,917, F. Kacer, Coloring matter, etc., suit June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

929,442, M. H. Isler, Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

948,204, R. Bohn, Coloring matter, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

955,105, R. Scholl and M. H. Isler, Dye, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

958,325, A. Schmidt and G. Kränzlein, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

961,048, F. Ullmann, Dyestuffs, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

961,612, M. H. Isler and H. Wolff, Coloring matters, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

970,878, R. Bohn, Dye, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

999,062, F. Singer, Manufacture of anthracene, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

1,003,268. R. Just and H. Wolff. Dyes, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

1,063,172. C. Rampini, Producing amino anthraquinones, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

1,063,173. C. Rampini, Producing amino anthraquinones, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

1,104,943. R. Uhlenhuth. Process of producing amino anthraquinones, suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

1,145,934. A. Steindorff and R. Welde. Dyestuffs, etc., suit filed June 23, 1922, U. S. D. C., W. D. N. Y., Doc. Eq. 391-C, *The Chemical Foundation, Inc. v. National Aniline & Chemical Co. & Frank White.*

1,367,152. M. C. La Bonte, Sun and rain shields for automobiles, suit filed June 26, 1922, U. S. D. C., N. D. Calif., Doc. 757-Eq., *Automobile Glass Association v. De Luxe Windshield Company.*

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 21, 1922.

Leslie & Welsh, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Flora W. Pinkus, of 93 Third Avenue, New York, for registration of a trade-mark and trade-mark registered November 6, 1894, No. 25,463, to Leslie & Welsh, 297 Main Street, Buffalo, N. Y., and a notice of such declaration sent by registered mail to said Leslie & Welsh at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Leslie & Welsh, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 26, 1922.

Paragon Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Pabst Corporation, Milwaukee, Wis., the Decatur Brewing Co., 604 Cantrell Street, Decatur, Ill., and the Pabst Brewing Company, 917 Chestnut Street, Milwaukee, Wis., for registrations of trade-marks and trade-mark registered March 5, 1907, No. 61,117, to the Paragon Malt Extract Co., 3553 Third Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to the said Paragon Malt Extract Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paragon Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The Rhubarb Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The William S. Merrell Company, of Fifth and Pike Streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 2, 1914, No. 97,440, to The Rhubarb Company, of 1151 Market Street, Wheeling, W. Va., and a notice of such declaration sent by registered mail to said The Rhubarb Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Rhubarb Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

Andrew H. Hanford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of the Eureka Metal Polish Co. (Inc.), of 1638 North Fairfield Avenue, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,627, to Andrew H. Hanford, of 30 Burling Slip, New York, N. Y., and a notice of such declaration sent by registered mail to said Andrew H. Hanford at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Andrew H. Hanford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

George Schneibel, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Don F. Lauro, of 289 Washington Street, New York, N. Y., for registration of a trade-mark and trade-mark registered September 17, 1901, No. 37,077, to George Schneibel, of 748 South High Street, Columbus, Ohio, and a notice of such declaration sent by registered mail to said George Schneibel at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Schneibel, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 8, 1922.

The Diastatic Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dimex Malt Extract Co., Inc., 71 Reservoir Avenue, Port Jervis, N. Y., for registration of a trade-mark and trade-mark registered October 20, 1914, No. 100,523, to the Diastatic Malt Extract Co., Room 1006, Hearst Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Diastatic Malt Extract Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Diastatic Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

The I. C. Hunsticker & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Pittsburgh Dry Goods Com-

pany, No. 935 Penn Avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 17, 1893, No. 22,342, to The I. C. Hunsicker & Co., Fourth and Washington Streets, Reading, Pa., and a notice of such declaration sent by registered mail to said I. C. Hunsicker & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said I. C. Hunsicker & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

Changes in Classification.

(ORDER NO. 2,762.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 20, 1922.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 137, Water Distribution (Division XXXIX), abolish subclasses—

- Cocks and faucets—
35. Thermal—
92. High temperature.

Rotary pumps—

176. Peripheral supply,
End supply—
177. Plural shafts—
Series—
178. Reversely rotating,
179. Single shaft—
180. Opposed delivery,
181. Opposed supply,
182. Series,
183. Tangential delivery,

Rotary pumps—

- Center supply—
Plural shafts—
184. Series—
185. Reversely rotating,
186. Single shaft—
187. Series—
188. Centric,
189. Opposed supply—
190. Tangential delivery—
191. Angular vane
192. Tube-wheel,
193.

Rotary pumps—

- Center supply—
Single shaft—
194. Single supply—
195. Angular vane—
196. Tangential delivery,
197. End flow,
198. End delivery,
199. Center delivery,
200. Tangential delivery,
201. Tube-wheel.

The patents formerly contained in these subclasses have been placed for the most part in class 103, Pumps, reclassified in this order, and class 230, Air and Gas Pumps, subclass 11, Fan blowers.

103.—PUMPS.

1. Miscellaneous,
2. Multiple suction or discharge.
3. Reversible flow.
4. Combined types—
5. Series.
6. Multiple fluids—
7. Single pump—
8. Cooperating piston,
9. Separate pulsation chambers.
10. Convertible types.
11. Regulators—
12. Combined controlling devices,
13. Throttle valve—
14. Float,
15. Thermostatic,
16. Expansible - chamber operated—
17. Valve controlled—
18. Float,
19. Multiple fluid pressure—
20. Valve controlled,
21. Flow controlled,
22. Starting and stopping devices—
23. Connectors and disconnectors—
24. Belt shifter,
25. Electric motor—
26. Float controlled,
27. Explosive engine,
28. Float—
29. Reciprocating rack,
30. Curved rack,
31. Gravity vessel—
32. Float controlled,
33. Expansible - chamber operated—
34. Float controlled,
35. Speed control—
36. Overflow to motor,
37. Variable capacity—
38. Stroke regulators,
39. Load distribution—
40. Check-valve controller,
41. By-pass—
42. Pressure operated.

103.—PUMPS—Continued.

43. With motor—
44. Fluid transmission—
45. Pump and motor circuit,
46. Drilled-well type,
47. Reciprocating motor—
48. Direct connected—
49. Multiple units,
50. Single acting plunger—
51. Double plunger,
52. Common piston,
53. Electric motor,
54. Explosive motor,
55. Gravity vessel,
56. Buoyant motor,
57. Rotary motor,
58. Current motor—
59. Rotary—
60. Water wheel—
61. Water bucket attached,
62. Endless-chain pump,
63. Endless chain,
64. Tide or wave motor—
65. Vane or bucket—
66. Oscillating,
67. Rotary,
68. Float—
69. Pivoted,
70. Vertically guided,
71. Weight.
72. Endless chain—
73. Piston type—
74. Pistons.
75. Momentum-liquid piston—
76. Vibrating tube,
77. Hydraulic rams—
78. Multiple drive pipes,
79. With pump.
80. Paddle.
81. Rocking channel.
82. Scoop.
83. Rotary—
84. Viscosity type,
85. Dipping channel—
86. Helicoidal,
87. With motor,
88. Screw and centrifugal,

The patents formerly contained in these subclasses have been placed for the most part in class 137, Water Distribution, subclasses 34.3, Drain valves, Automatic control, By thermal element, and 161, High temperature, and the subclass indented thereunder, hereinafter established.

In class 137, Water Distribution (Division XXXIX), establish subclasses—

- Drain valves—
34. Manual control,
34.1. Automatic control—
34.2. Liquid pressure,
34.3. By thermal element.
161. High temperature—
162. Valve closing, fuse operated.

The patents contained in subclasses 34, 34.1, and 34.2, above, have been taken for the most part from class 103, Pumps, subclass 60, Elements, Cut-off and drain devices, hereinafter abolished, and those contained in subclasses 34.3, 161, and 162 have been taken for the most part from class 137, Water Distribution, subclasses 35, Cocks and faucets, Thermal, and 92, Cocks and faucets, Thermal, High temperature, hereinbefore abolished.

Abolish class 160, Steam and Vacuum Pumps (Division XVIII), the patents formerly contained in this class having been placed for the most part in class 103, Pumps, reclassified in this order.

In class 253, Motors—Fluid (Division IX), abolish the following subclasses with their definitions:

In class 103, Pumps (Division IX), abolish the existing subclasses and establish in lieu thereof the following subclasses and definitions:

103.—PUMPS—Continued.

Rotary—

89. Screw—
90. Drilled-well type,
91. Rotary casing,
92. Multiple impellers—
93. Series,
94. Reversely rotating,
95. Centripetal,
96. Centrifugal—
97. Regulators,
98. With turbo diffuser,
99. Tube type—
100. Radiating channels,
101. Bowl type,
102. Drilled-well type,
103. Center intake—
104. Opposed intakes,
105. Multiple impellers—
106. Convertible,
107. Parallel,
108. Series—
109. Opposed intakes,
110. Concentric,
111. Elements—
112. Balancing devices,
113. Priming and venting devices,
114. Liners and materials,
115. Impellers.
116. Expansible chamber—
117. Rotary—
118. With motor,
119. Drilled-well type,
120. Variable capacity,
121. Rotary cylinder,
122. Movable abutment—
123. Reciprocating,
124. Oscillating,
125. Rotary,
126. Interengaging impellers—
127. Beveled,
128. Helical,
129. Alternating pistons,
130. Planetary piston—
131. Nonrotating—
132. Movable abutment,
133. Nutating axis,

103.—PUMPS—Continued.

- Expansible chamber—
 Rotary—
 134. Movable vane—
 135. Reciprocating—
 136. Radial—
 137. Diametrically coop-
 erating—
 138. Intersecting,
 139. Axially moving,
 140. Oscillating—
 141. Radial pivot—
 142. Axial,
 143. Rotary,
 144. Stationary pivot,
 145. Oscillating piston—
 146. Valved piston,
 147. With motor,
 148. Collapsible chamber—
 149. Rotary compress,
 150. Diaphragm—
 151. Valved,
 152. With motor,
 153. Reciprocating piston—
 154. Fuel-feeder types,
 155. Drilled-well type—
 156. Double acting,
 157. Axially rotating,
 158. Movable cylinder—
 159. Oscillating,
 160. Rotary—
 161. Multiple cylinders—
 Parallel,
 163. Flow controlling,
 164. Fluid transmission—
 Liquid,
 166. Opposing pistons,
 167. Successive pistons—
 168. Differential pistons,
 169. Multiple cylinders—
 Duplex,
 171. Aligned—
 172. Center inlet and de-
 livery,
 173. Annularly disposed,
 174. Radiating,

103.—PUMPS—Continued.

- Expansible chamber—
 Reciprocating piston—
 175. Double acting—
 176. Multiple cylinders—
 177. Parallel,
 178. Valved piston—
 179. Drilled-well type—
 180. Valve puller,
 181. Removable barrel,
 182. Multiple cylinders—
 Duplex,
 183. Aligned cylinders—
 184. Center supply,
 185. Center delivery,
 186. Solid piston combined,
 187. Hollow piston rod—
 188. Valved piston com-
 bined,
 189. Solid piston combined,
 190. Multiple cylinders,
 191. Double-acting piston—
 Hollow suction rod,
 192. Successive pistons—
 193. Combined solid pis-
 ton—
 194. Hollow piston rod,
 195. Reversed valves,
 196. Oppositely moving—
 197. Reversed valves,
 198. Aligned,
 199. Solid piston com-
 bined.
 200. Elements—
 201. Priming and venting,
 202. Agitating, flushing, and fluid
 packing,
 203. Operating devices—
 204. Power and load equalizers,
 205. Multiple actuators,
 206. Animal or vehicle,
 207. Vehicle and cable,
 208. Quick return,
 209. Spring or weight,
 210. Flexible transmission,
 211. Cams and eccentrics,
 212. Rack and pinion,
 213. Oscillating lever,

103.—PUMPS—Continued.

- Elements—
 216. Cylinders, liners, and mate-
 rials,
 217. Stocks and casings,
 218. Supports—
 219. Tube-well types,
 220. Sand traps and strainers,
 221. Drain devices,
 222. Accumulators,
 223. Cushioning devices—
 Air and vacuum chambers,
 224. Valved pistons,
 225. Releasable piston-rod and ca-
 ble couplings,
 226. Valve actuation,
 227. Valves—
 Standing,
 228. Multiple.
 229. Pneumatic displacement and
 air jet.
 230. Aerated column—
 231. Series.
 232. Pneumatic displacement—
 233. Vacuum and pressure,
 234. Vacuum,
 235. Hydraulic compression,
 236. Multiple chambers—
 237. Series.
 238. Automatic valve actuation—
 239. Electric motor,
 240. Gravity vessel—
 241. Movable pump chamber,
 242. Rotary motor,
 243. Reciprocating motor—
 244. Float controlled,
 245. Mechanically controlled,
 246. Float.
 247. Combustion—
 248. Momentum liquid piston,
 249. Vacuum.
 250. Steam and vacuum—
 251. Boiler feeders,
 252. Steam loop,
 253. With generator,
 254. Multiple chambers—
 255. Duplex.

WM. A. KINNAN, *Acting Commissioner.*

Changes in Classification.

(ORDER NO. 2,763.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,

Washington, D. C., June 22, 1922.

It is hereby directed that class 76, Metal Tools and Implements—Making, be transferred from Division XIII to Division XIV, to take effect immediately.

WM. A. KINNAN,
Acting Commissioner.

Changes in Classification.

(ORDER NO. 2,768.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,

Washington, D. C., July 5, 1922.

The transfer of the following classes is hereby directed, to take effect immediately:

Classes 9, Boats and Buoys; 114, Ships; 115, Marine Propulsion, and 124, Air Guns, Catapults, and Targets, from Division XLIV to Division XXII.

Classes 221, Dispensing, and 225, Dispensing Beverages, from Division XLIII to Division XLIV.

Class 107, Bread, Pastry, and Confection Making, from Division XV to Division XLIV.

WM. A. KINNAN,
Acting Commissioner.

Interference Defined.

RULE 93. An interference is a proceeding instituted for the purpose of determining the question of priority of invention between two or more parties claiming substantially the same patentable invention. In order to ascertain whether any question of priority arises the Commissioner may call upon any junior applicant to state in writing the date when he conceived the invention under consideration. All statements filed in compliance with this rule will be returned to the parties filing them. In case the applicant makes no reply within the time specified, not less than ten days, the Commissioner will proceed upon the assumption that the said date is the date of the oath attached to the application. The fact that one of the parties has already obtained a patent will not prevent an interference, for, although the Commissioner has no power to cancel a patent, he may grant another patent for the same invention to a person who proves to be the prior inventor.

THE OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 300—No. 4.

TUESDAY, JULY 25, 1922.

Price—\$5 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscriptions, \$5.00 per annum; single numbers, 10 cents each.

Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

CONTENTS.

	Page.
ISSUE OF JULY 25, 1922.....	621
DISCLAIMERS.....	621
APPLICATIONS UNDER EXAMINATION.....	622
PATENTS GRANTED.....	623
REISSUES.....	754
DESIGNS.....	756
TRADE-MARKS PUBLISHED (255 APPLICATIONS).....	761
TRADE-MARK REGISTRATIONS GRANTED.....	797
LABELS.....	813
PRINTS.....	814
DECISIONS OF THE U. S. COURTS—	
Dowell v. Doman.....	815
Gray v. McAfee.....	815
ADJUDICATED PATENTS.....	817
ADVERSE DECISIONS IN INTERFERENCE.....	817
INTERFERENCE NOTICES.....	817

Issue of July 25, 1922.

Patents.....	638—No. 1,423,507 to No. 1,424,144, inclusive.
Designs.....	21—No. 61,266 to No. 61,286, inclusive.
Trade-Marks.....	324—No. 156,974 to No. 157,297, inclusive.
Labels.....	27—No. 24,743 to No. 24,769, inclusive.
Prints.....	13—No. 6,223 to No. 6,235, inclusive.
Reissues.....	10—No. 15,417 to No. 15,426, inclusive.
Total.....	1033

Disclaimers.

899,446.—*Robert Faries*, Williamsport, Pa. PRESSURE INDICATOR AND REGULATOR. Patent dated September 22, 1908. Disclaimer filed July 14, 1922, by the assignee, *A. Schrader's Son, Incorporated*.

Hereby disclaim claims 1, 2, 3, 4, 5, 7, 10, 11, 12, and 14 of the said Patent No. 899,446, the said claims reading as follows:

"1. The combination of movably mounted valve mechanism, comprising a valve and its seat, the valve being movable to and from its seat, and pressure-indicating means for showing varying pressures, operated by the movement of said mechanism.

"2. The combination of movably mounted valve mechanism, comprising a valve and its seat, the valve being movable to and from its seat, means for placing said mechanism in communication with the pressure-containing structure, at all points in the movement of said mechanism, and indicating means for showing varying pressures, operated by the movement of said mechanism.

"3. The combination of a stem or casing, adapted to be attached to a fluid-pressure receiving structure, a valve mechanism movably mounted in said casing, comprising a valve and its seat, to and from which the valve is movable, and indicating means for showing varying pressures within said structure, operated by the movement of said mechanism.

"4. The combination of a stem or casing adapted to be attached to a fluid-pressure receiving structure, an inwardly opening valve mechanism movably mounted in said casing, an extensible and contractible connection between said valve mechanism and the interior of the pressure-receiving structure, and indicating means operated by said valve mechanism.

"5. The combination of movably mounted valve mechanism, comprising a valve and its seat, the valve being movable to and from its seat, pressure-indicating means for showing varying pressures operated by the movement

of said mechanism, and automatic means for relieving excess pressure.

"7. The combination of a stem or casing adapted to be attached to a fluid-pressure receiving structure, an inwardly opening valve mechanism movably mounted in said casing, an extensible and contractible connection between said valve mechanism and the interior of the pressure-receiving structure, indicating means operated by said valve mechanism, and a spring opposing the movement of the indicating means by pressure on the valve mechanism.

"10. The combination with a pneumatic tire, of a pressure indicator comprising a tube or casing attached to the tire for showing varying pressures within the tire, and a member slidably connected with said tube or casing, having a pressure-receiving part in communication with the interior of the tire.

"11. The combination of movably mounted valve mechanism, comprising a valve and its seat, to and from which the valve is movable, pressure indicating means operated by the movement of such mechanism, a spring yieldingly opposing the movement of the indicating means by pressure, and means to positively prevent movement of the indicator by pressure on said mechanism.

"12. The combination of movably mounted valve mechanism, comprising a valve and its seat, to and from which the valve is movable, pressure indicating means operated by the movement of such mechanism, a spring yieldingly opposing the movement of the indicating means by pressure, and a screw cap adapted to engage the valve mechanism and hold it from movement by pressure.

"14. The combination of a pressure indicator having a spring acting yieldingly in opposition to pressure to move the indicator, and means to positively hold the indicator from movement by such pressure."

Hereby further disclaim from the scope of claim 6 and of claim 13 (1) any combination which does not constitute an inflation valve for pneumatic tires which "is normally closed to prevent egress of air from within the tube, but yields inwardly to permit the ingress of air thereto, in the well known manner" and (2) any combination of elements in which the "valve mechanism" set forth in said claim 6 and in said claim 13 is not that "through which air is injected into the tire and therein retained."

1,035,185.—*William P. Hammond*, New York, N. Y., and *Theodore A. Hammond*, Passaic, N. J. VALVE FOR PNEUMATIC TIRES. Patent dated August 13, 1912. Disclaimer filed July 14, 1922, by the assignee, *A. Schrader's Son, Incorporated*.

Hereby disclaim from the scope of each and all of the claims of said Patent No. 1,035,185, (1) any combination which does not constitute a "valve for pneumatic tires" as such term is understood in the art, and was so understood at the date of said patent, that is to say, a valve or valve stem constructed and adapted for connection with a pump or other inflating means for the purpose of inflating the tire, and (2) any combination of elements in which the "valve mechanism" set forth in the claims does not comprise the inwardly-opening check valve and seat of such pneumatic tire valve or valve stem.

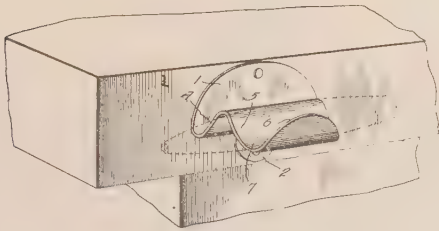
Condition of Applications Under Examination at Close of Business July 15, 1922.

Room No.	Divisions, Examiners, and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
(Total number of applications waiting action, excluding Trade-Mark division, 67,657; Trade-Mark division, 8,522. Oldest new case, May 18; oldest amended, Apr. 18, 1921. The dates given are 1921 except where * indicates 1922.)				
314	1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Dec. 3	*Jan. 12	929
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Aug. 5	July 21	1,950
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Nov. 16	Aug. 19	933
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Conveyers, Power Driven; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 1	*Jan. 7	1,440
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manfolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 26	Oct. 7	1,128
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Oct. 5	*Jan. 6	1,342
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Oct. 3	Nov. 12	2,404
133	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	*Mar. 31	*May 12	907
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	June 2	*May 20	1,116
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Dec. 27	*Apr. 4	1,098
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	*Feb. 20	*Feb. 28	684
322	12. PIERCE, P. F., Machine Elements.	Dec. 10	*Mar. 15	1,231
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	June 23	*Mar. 13	1,702
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	May 24	*Mar. 25	1,242
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 1	Sept. 9	1,759
112	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	July 20	July 16	2,369
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Aug. 26	Feb. 4	1,375
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expandible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	June 1	May 6	2,404
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	June 7	Dec. 12	1,291
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	*Feb. 1	*Jan. 20	1,590
212	21. THURBER, W. L., Continuous-Strip Feeding; Textiles; Braiding, Netting, or Lace Making; Textiles, Cloth Finishing; Textiles, Fiber Preparation; Textiles, Knitting; Textiles, Spinning; Textiles, Twisting or Twining; Textiles, Weaving; Winding and Reeling.	Sept. 21	Dec. 29	906
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Nov. 1	*Mar. 25	649
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	July 6	Nov. 6	824
144	24. DUKAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Sept. 17	*Feb. 16	1,201
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	*Apr. 8	*Apr. 19	418
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Sept. 28	Dec. 31	1,054
214	27. ANDERSON, L. S., Abrading; Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus.	Sept. 19	Sept. 12	2,015
225	28. BENSON, A. B., Internal-Combustion Engines.	Oct. 28	Sept. 16	1,683
147	29. MORRIS, B. N., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Oct. 15	*May 8	640
132	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	*Jan. 3	*Apr. 13	1,470
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	June 27	Sept. 12	2,152
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Sept. 2	*Apr. 1	970
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Nov. 30	*Feb. 10	922
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	*Mar. 22	*Mar. 22	548
52	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	*Mar. 13	*Apr. 26	858
294	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	*Feb. 8	*Jan. 13	1,794
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers.	Sept. 6	Aug. 19	1,878
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Oct. 22	Oct. 20	1,756
229	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	May 18	June 8	2,315
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	July 30	Oct. 13	2,853
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	*Feb. 9	*Mar. 1	759
114	42. CUTTING, H. O., Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Aug. 12	July 14	1,906
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Aug. 17	Oct. 4	1,858
233	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration; Ships.	Oct. 25	*Mar. 20	645
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Dec. 19	*Feb. 3	1,241
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Oct. 19	Dec. 5	1,292
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Sept. 18	*Jan. 31	1,259
118	48. ROEPKE, O. B., Electricity Conductors; Electricity, General Applications.	Apr. 7	Apr. 18	2,837
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks.	Sept. 12	*Jan. 30	5,929
	Designs.	Dec. 1	Dec. 30	2,484
	Labels and Prints.	*June 24	*July 10	109

PATENTS

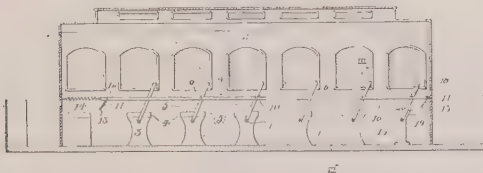
GRANTED JULY 25, 1922.

1,423,507. CIGAR REST. LOUISE ALLEN, Hawarden, Iowa. Filed Dec. 3, 1920. Serial No. 428,054. 1 Claim. (Cl. 131—51.)



As a new article of manufacture, a cigar holder consisting of an elongated strip of metal having a tongue formed within the body of the strip, said tongue and the adjacent end of the strip being aligned to permit of attachment to a vertical wall, and having openings for fasteners, the free end of the strip being bent to approximately right angles to the tongues and adjacent end of the strip and formed into a plurality of looped portions, the outermost of said looped portions being of suitable shape and size to hold a cigar and in a position spaced substantially apart from the wooden or other vertical wall to which the device may be attached.

1,423,508. CAR-SEAT CONSTRUCTION. FRANK ANDRUSYSZYN, Revloc, Pa. Filed Dec. 1, 1921. Serial No. 519,173. 1 Claim. (Cl. 155—101.)

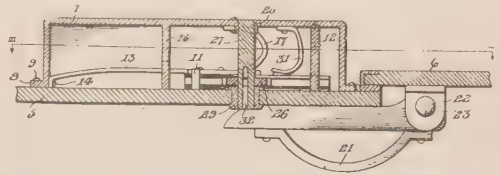


A car seat construction comprising a plurality of seats arranged in series, each seat comprising a base frame, a hinged back carried by each base frame, a connecting rod pivotally secured to the corresponding sides of the seat backs, means for shifting said rod to cause a simultaneous movement of the seat backs and spring devices associated with said connecting rod to prevent vibration thereof when arranged in a set position.

1,423,509. SLIDING-DOOR LOCK. FRANK ANDRUSYSZYN, Revloc, Pa., assignor of one-fourth to Wasyl Klymko, Nanty Glo, Pa., and one-fourth to Anna Senczak, Revloc, Pa. Filed Dec. 1, 1921. Serial No. 519,174. 5 Claims. (Cl. 70—31.)

3. In combination with a sliding door having a transversely swinging bolt connected thereto provided with oppositely extending shoulders, a sliding locking plate adapted to engage one of said shoulders, a member stationary with respect to said door and adapted to engage the other of said shoulders, said last named shoulder

being engageable with said stationary member when the door is closed and releasable therefrom upon slight further movement of the door in the direction of its closing movement, means to move said locking plate to disengage the same from the first named shoulder of said bolt,

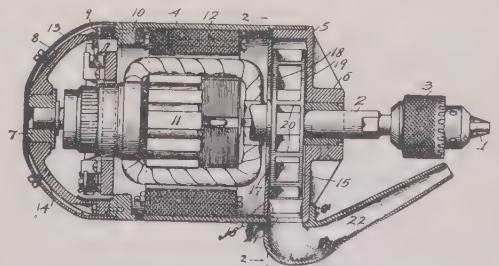


said locking plate and said stationary member having openings adapted to be alined by adjustment of the locking plate for admitting said bolt, and means to yieldingly urge the bolt outwardly through said openings upon alinement of said openings and such further movement of the door in the direction of its closing movement.

1,423,510. METHOD OF CONDUCTING THE AMMONIA-SODA PROCESS. EDWARD E. ARNOLD, Coventry, and PALMER ST. CLAIR, JR., Providence, R. I., assignors to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Mar. 11, 1920. Serial No. 365,087. 9 Claims. (Cl. 23—22.)

8. The improvement in the ammonia soda process which comprises expanding a compressed gas in proximity to but separated from a body of ammoniated brine to absorb the heat generated by the reactions resulting in the production of sodium bicarbonate.

1,423,511. ROUTING TOOL. JAMES N. BAKER, Brooklyn, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed July 31, 1918. Serial No. 247,471. 3 Claims. (Cl. 90—12.)

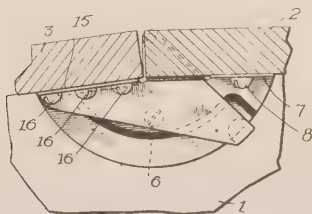


1. In a routing tool, the combination with a tool carrier, means for driving the carrier, a fan driven by the carrier, driving means for producing a current of air, and enclosed connections leading from the fan to the working end of the tool whereby an air current is directed to the tool point and the point kept free from chips.

1,423,512. TRANSMISSION AND MOTOR OIL. WALTER K. BOILEAU, Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation, a Corporation of Delaware. Filed June 5, 1922. Serial No. 566,151. 2 Claims. (Cl. 87-9.)

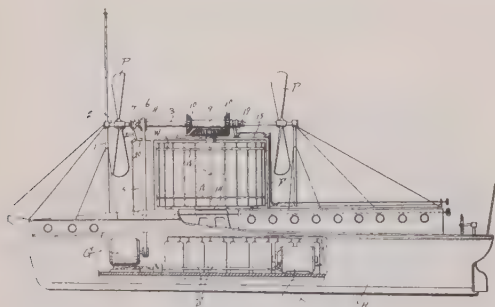
1. An oil for the lubrication of the cylinders, bearings, transmission and the fabric linings of transmission and brake bands of internal combustion engines having the planetary type of transmission used in propelling automobiles and the like, consisting of petroleum oil of the consistency ordinarily used for the lubrication of the cylinders of internal combustion engines, combined with 2 to 12% neutral wool fat.

1,423,513. COMBINED HINGE AND STOP FOR DESK LIDS AND THE LIKE. CHARLES A. BROWN, Gardner, Mass., assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 20, 1919. Serial No. 339,407. 2 Claims. (Cl. 16-191.)



2. A hinge for the movable lid of a desk, said hinge having a stationary element bearing against the desk side, with its edge removed or offset therefrom, and a movable element secured to said lid and providing a portion embracing the offset edge of said stationary element, said portion cooperating with a stop on said stationary element to limit the opening movement of said lid, said movable element being removed from the plane of attachment of said stationary element, whereby to clear the attaching means of said stationary element.

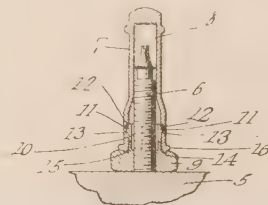
1,423,514. POWER PLANT. WILLIAM PAUL BUTUSOV, Norfolk, Va. Filed Jan. 24, 1921. Serial No. 439,467. 2 Claims. (Cl. 170-10.)



1. The combination with a movable body including a deck, an upstanding frame carried by the deck, the deck and frame having vertically opposed bearings, a wind driven element rotatably supported by said bearings, a shaft supported by the deck above the frame, a sleeve mounted upon the shaft for driven connection with the wind driven element, coating means carried by the shaft and the sleeve for causing the shaft and sleeve to rotate in unison, said means including a member

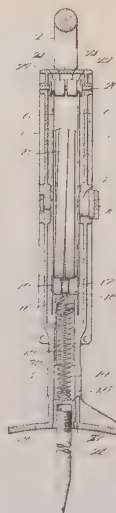
keyed to the shaft for rotation therewith and for movement lengthwise thereof, and means carried by the frame for imparting movement to the member lengthwise of the shaft.

1,423,515. DUST CAP. ALBERT B. CATTERALL, Ottumwa, Iowa. Filed Mar. 30, 1920. Serial No. 369,976. 1 Claim. (Cl. 152-12.)



In combination with a valve stem, a securing nut positioned on the valve stem and having resilient upwardly extending fingers, said fingers having enlargements, said nut having an annular groove, a cap of a diameter to engage the valve stem, said cap having an enlarged lower portion providing a clearance for the fingers and having a flange formed at its end, said flange adapted to be fitted in the annular groove, said cap having a groove providing a shoulder disposed in spaced relation with the lower end of the cap, said shoulder adapted to cooperate with the enlargements of the fingers, for forcing the flange of the dust cap into the annular groove of the securing nut, and an annular shoulder formed adjacent to the base of the cap to restrict movement of the cap with respect to the securing nut.

1,423,516. TAPE REEL. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 25, 1921. Serial No. 447,712. 7 Claims. (Cl. 242-99.)



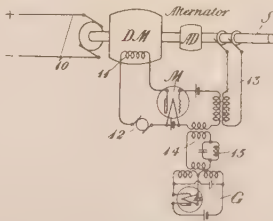
6. A tape reel having a frame, a reel journaled therein, the reel having cheek plates for confining the tape laterally, a member mounted in the frame and projecting radially inward between the cheek plates and a pair of friction elements mounted on said member, and adapted to engage the inner surface of said plate, said elements being spring pressed towards said plates for maintaining contact therewith and creating friction to prevent overthrow.

- 1,423,517. LAMINATED TALKING-MACHINE RECORD. VICTOR H. EMERSON, New York, N. Y., assignor to Emerson Phonograph Company, Inc., a Corporation of New York. Filed Sept. 27, 1920. Serial No. 413,100. 9 Claims. (Cl. 154-43.)



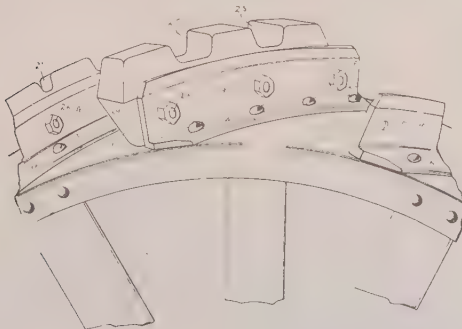
1. A talking machine record, including a base of relatively thin sheet material, an intermediate layer of fluxible bituminous material forming the principal bulk of the record, and a thin outer layer of record stock.

- 1,423,518. FREQUENCY REGULATOR. LLOYD ESPENSCHIED, Queens, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 11, 1920. Serial No. 388,305. 7 Claims. (Cl. 171-119.)



1. In a synchronizing system a mechanism undergoing a periodic cycle, means to generate an alternating current whose frequency is determined by the frequency of said cycle, means to generate an alternating current whose frequency is independently determined, means to produce a current proportional to the difference between said frequencies, and means responsive to said current for regulating the frequency of said periodic cycle.

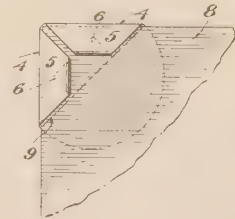
- 1,423,519. DETACHABLE TREAD FOR TRACTOR WHEELS. EUGENE J. FARKAS, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich., a Corporation of Delaware. Filed Jan. 13, 1921. Serial No. 436,889. 7 Claims. (Cl. 301-44.)



2. In a device of the class described a tractor wheel having a rim, a plurality of lugs secured thereto having blade portions extending from the rim, said blade portions having spaced openings therein, a supporting member of angular cross section having openings in one web thereof to register with the openings in said blade, attaching means removably mounted in said aligned openings, diagonal brace members formed integral with the webs of the supporting member at the ends thereof and

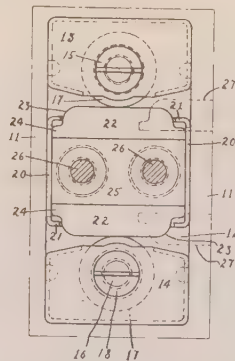
a somewhat resilient tread member vulcanized to said second web of the supporting member and provided with a plurality of channels therein whereby said tread member may be divided into a plurality of contact pads.

- 1,423,520. PAPER FASTENER. BENJAMIN H. FREEDMAN, New York, N. Y. Filed Oct. 7, 1921. Serial No. 506,082. 3 Claims. (Cl. 24-67.)



3. A paper fastener comprising a sheet metal plate having a pair of wings inwardly bent to overlie sheets of paper to be secured together, said wings having points doubled over to form portions on said wings of double thickness.

- 1,423,521. DOOR BUFFER. JOSEPH GALAMB, Detroit, Mich., assignor to Ford Motor Company, Highland Park, Mich., a Corporation of Delaware. Filed Jan. 3, 1921. Serial No. 434,631. 6 Claims. (Cl. 16-85.)



3. In a device of the class described, a supporting member adapted to be secured to a door frame comprising an intermediate portion and pockets formed at either end thereof, rollers mounted in said pockets adapted to project therefrom, a second assembly supporting member having flanges at either end thereof provided with ears at the ends of said flanges, contact members mounted between said flanges and provided with ears adapted to co-act with the first mentioned ears, and a compressible block mounted between said contact members and said flanges, whereby when said contact members are forced between said rollers said block may be compressed.

- 1,423,522. YIELDING RESISTANCE UNIT FOR CAR BUFFERS. RICHARD D. GALLAGHER, Jr., Flatbush, N. Y., assignor to Standard Coupler Company, New York, N. Y., a Corporation of New Jersey. Filed July 8, 1921. Serial No. 483,349. 8 Claims. (Cl. 213-64.)

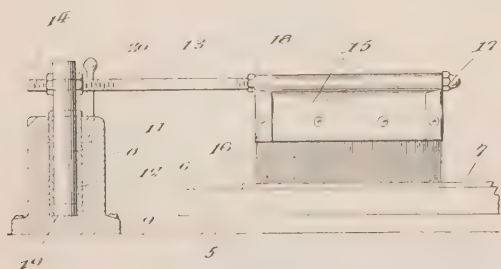
1. A self-contained resilient unit for car buffers, comprising a barrel open at one end, a series of followers movable longitudinally in the barrel and adapted to contact with each other, spring members normally holding the followers separated and of different yielding capacity whereby the followers will contact with each other successively, a dominant spring member for yieldingly resist-

ing the movement of the followers as a unit when brought together, and means connected with the barrel for partially closing the open end of the barrel and preventing



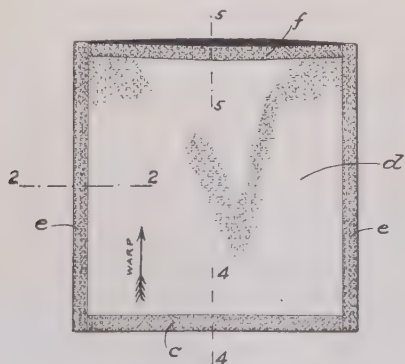
the escape of the followers from the barrel, the face of one of said followers being exposed through the partially closed end of the barrel.

1,423,523. BRUSH FOR TALKING MACHINES. THOMAS S. GROW, Allentown, Pa. Filed Apr. 7, 1921. Serial No. 459,432. 1 Claim. (Cl. 274-1.)



A brush device for talking machines of the disk type, employing a rotatable turntable for supporting the record disk; said device comprising a brush, a supporting arm for the brush adjustable to position the brush across the face of the disk, a rotatable spindle carrying the arm, a support having a bearing opening in which the spindle is loosely and removably mounted, said support being mounted alongside the turntable and clear of the same, and a member removably mounted in the bearing opening and positioned beneath the spindle for determining the elevation of the spindle, the lower end of the latter seating on said member.

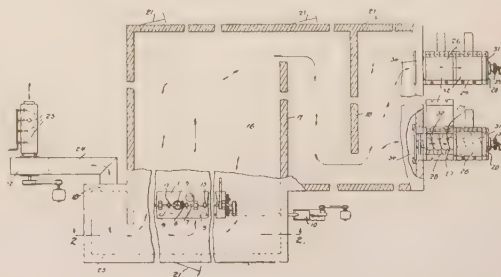
1,423,524. WOVEN TUBULAR FABRIC. WILLIAM E. HILL, Philadelphia, and CARRODUS V. FIRTH, Ashbourne, Pa., assignors to Porter Brothers Textile Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 24, 1919. Serial No. 278,944. 1 Claim. (Cl. 139-72.)



A one piece bag or pillow cover having a substantially broad border on the four edges thereof, the border and

the central portion surrounded by the border being of different weaves, the central portion and the border along one edge being woven in two plies, while the borders along the other three edges are woven in a single ply, so that the four borders are substantially the same in appearance to form a bag open at one end and closed along the other three ends with a surrounding broad border, which is arranged to project outwardly from the pillow to form a projecting edge trimming on the four edges of the pillow when the cover is in place and the faces of the two ply border are secured to each other to close the open end of the cover.

1,423,525. PROCESS FOR TREATING RUBBER-CONTAINING LATEX. ERNEST HOPKINSON, New York, N. Y., assignor to General Rubber Company, a Corporation of New Jersey. Filed Jan. 16, 1920. Serial No. 351,945. 33 Claims. (Cl. 18-50.)

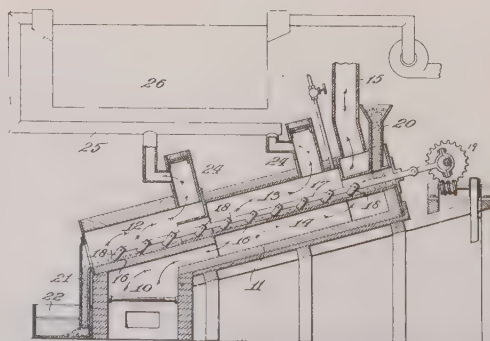


1. A process for treating latex or similar material which comprises subjecting finely divided latex to a drying gas, withdrawing moisture from the latex, precipitating solid particles of latex and compacting the particles.

1,423,526. PRODUCT OBTAINED FROM RUBBER-CONTAINING LATEX. ERNEST HOPKINSON, New York, N. Y., assignor to General Rubber Company, a Corporation of New Jersey. Filed Jan. 16, 1920. Serial No. 351,946. 16 Claims. (Cl. 18-50.)

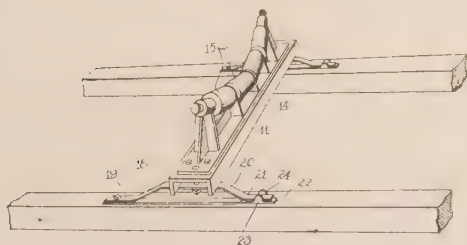
1. A crude rubber derived from masses of latex dried in comminuted form and compacted.

1,423,527. METHOD OR PROCESS OF DISTILLATION OF MATERIAL CARRYING A PERCENTAGE OF VOLATILE MATTER. GEORGE McD. JOHNS, St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company, a Corporation of Delaware. Filed July 16, 1920. Serial No. 396,837. 10 Claims. (Cl. 196-21.)



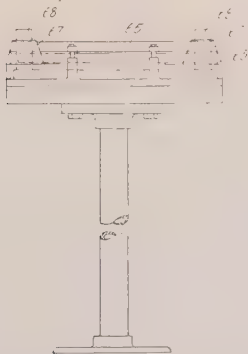
1. The method of distilling oil-bearing shale and other materials to obtain the volatile content thereof which comprises feeding the material in a pulverized condition and in a continuous layer of substantially uniform thickness over and upon a stationary heated inclined plane.

1,423,528. SELF-TRAINING BELT CONVEYER. MYRON A. KENDALL, Aurora, Ill., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill., a Corporation of Illinois. Filed July 8, 1921. Serial No. 483,270. 9 Claims. (Cl. 74-51.)



1. In a belt conveyer, the combination with a traveling load carrying belt, of a transverse carrier for the belt and a spring yielding downwardly and forwardly with respect to the direction of movement of the belt supporting each end of the carrier.

1,423,529. LEVEL INDICATOR FOR PLATFORMS. GEORGE W. KING, deceased, late of Marion, Ohio, by Sarah King, executrix, Marion, Ohio, and Charles B. King, Benjamin Jacoby, and Herbert E. Roush, Marion, Ohio, and Grant Holmes, Danville, Ill., assignors to The Marion Steam Shovel Co., Marion, Ohio. Original application filed June 2, 1917, Serial No. 172,355. Divided and this application filed Aug. 24, 1918. Serial No. 251,341. 3 Claims. (Cl. 33-206.)

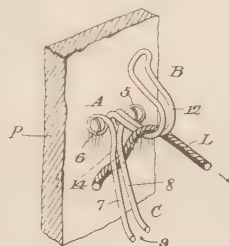


1. A device to indicate the position of a tiltable platform comprising a shallow container for a fluid having a fiat transparent top arranged parallel with the platform to cause the fluid in said container to form a chord-like line parallel with the axis about which said platform is tilted, and also having intersecting conduits containing a fluid and provided at their ends with vertical sockets and plungers mounted in said sockets and having parts adapted to project above the tops of the respective sockets.

1,423,530. CLOTHESLINE HANGER. FRED O. LAKE, Park Lane, Va. Filed Nov. 15, 1921. Serial No. 515,286. 3 Claims. (Cl. 24-131.)

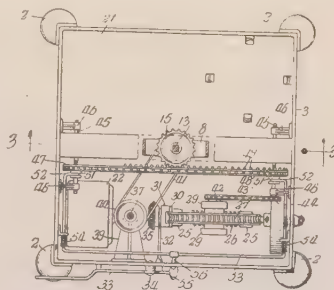
1. In clothes line supports, a base member comprising

two eyelets, a line supporting member, and a line securing member bent to form a third point of support with the



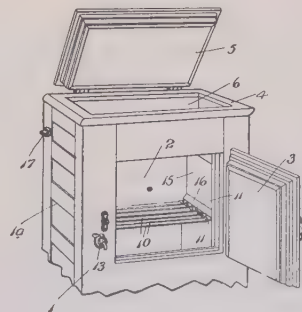
eyelets when under tension and then to diverge from the plane of the support to form a wedging recess therewith.

1,423,531. DRIVING MECHANISM FOR WASHING MACHINES. CHARLES C. LAMB, Chicago, Ill., assignor of one-half to Willard M. McEwen, Chicago, Ill. Filed Nov. 19, 1919. Serial No. 339,170. 4 Claims. (Cl. 74-50.)



1. In a gearing of the character described, the combination of a support, an upright operating shaft rotatably mounted in said support, two toothed wheels and a pulley fixed to said shaft, an endless chain having teeth part way around the same for alternately engaging said wheels for oscillating said shaft, a motor on said support for driving said chain and pulley in one direction, and a clutch mechanism for connecting either the chain or the pulley with said motor.

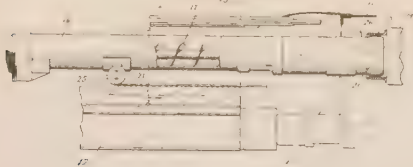
1,423,532. REFRIGERATOR. CHARLES H. LEONARD, Grand Rapids, Mich., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Apr. 16, 1919. Serial No. 291,408. 1 Claim. (Cl. 62-43.)



In a refrigerator, having an ice chamber, a coil formed of a plurality of parallel horizontal pipes connected together and located horizontally in the ice chamber a

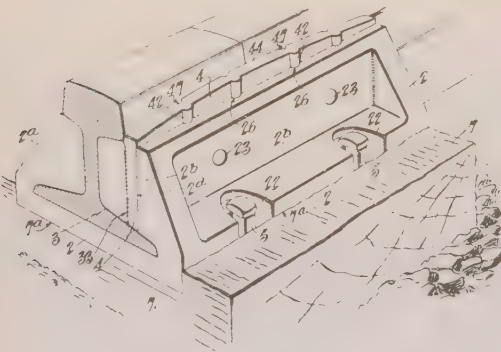
distance above the bottom of the chamber, a pipe supporting one end of the coil and having connection thereto whereby water entered into the pipe is carried to the coil, an outlet pipe connected to and leading from the coil through the front of the refrigerator, means at the front end of the outlet pipe to control the passage of water from the coil, means for supplying water to said supporting pipe from a point outside of the ice chamber, a cleat or block on which the opposite end of the coil rests, and a lining to the ice chamber lying vertically alongside of the cleat and of the coil, said lining having an inwardly struck portion coming over the ends of the coil, substantially as and for the purposes described.

1,423,533. LOCOMOTIVE STOKER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Apr. 7, 1920. Serial No. 371,909. 6 Claims. (Cl. 198—15.)



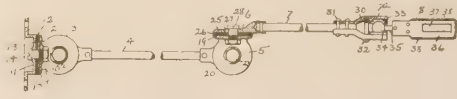
1. In a locomotive stoker, the combination with a locomotive and tender, a fuel conduit comprising a section fixedly mounted on the locomotive, and a section having a sliding and flexible connection with the first-named section, means for supporting the second-named section on the tender and permitting its longitudinal and lateral movement, and a stop for limiting the backward movement of such section.

1,423,534. RAIL CHAIR. CHARLES MALITCH, Hamilton, Ohio. Filed Apr. 18, 1922. Serial No. 554,641. 4 Claims. (Cl. 238—207.)



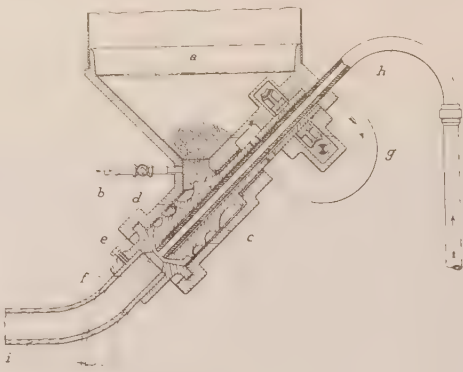
1. A combined rail chair and joint comprising a chair including a base adapted for being secured upon a rail tie, the said base having a seat, a pair of opposing rail ends whose base portions are received on the chair seat, the said chair having at each side a vertically extended longitudinal flange, one of the said flanges opposing the adjacent web faces at one side of the rail ends, a filler member at the other side of the webs of the rail ends, the said filler opposing its respective adjacent vertical chair flange, a wedge interposed between the said filler and the adjacent rail chair flange, and means for clamping the several parts in interlocked engagement, the said wedge member having its upper edge crowned from the ends toward the center whereby to present a top surface on the wedge adapted for being engaged by the flanges of passing car wheels when the said wedge works upwardly to bring the said upper edge in a plane of travel of the flanges of the car wheel.

1,423,535. BRACKET. FRANK P. MILLER, Meadville, Pa. Filed Dec. 16, 1919. Serial No. 345,430. 3 Claims. (Cl. 287—14.)



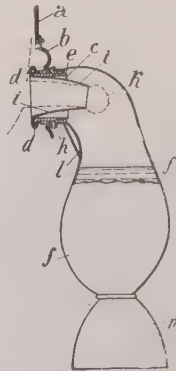
1. In a bracket, the combination of a mounting member and a yielding member; a joint between the members comprising joint plates with plane opposing surfaces, said plates being of resilient material; an interposed washer between the surfaces, said washer having a greater thickness at its outer periphery than at the center; and a connection between the plates at the axis of the joint, said connection springing the plate to effect a spring-pressed contact between the plates and washer at the periphery of the washer.

1,423,536. APPLIANCE FOR THROWING MORTAR FOR THE PLASTERING OF WALLS AND THE LIKE. THEODOR MOSER, Berlin-Grunewald, Germany. Filed Oct. 29, 1920. Serial No. 420,552. 2 Claims. (Cl. 72—130.)



1. Mortar throwing apparatus comprising a hopper, a casing into which the hopper discharges, a nozzle leading from the casing, a screw conveyer arranged for rotation in the casing and the flight of which decreases in pitch toward the discharge end of said conveyer, means to discharge compressed air through the conveyer and the said nozzle, and driving means for the conveyer.

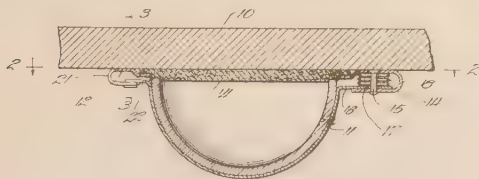
1,423,537. URINAL. GEBHARD MÜLLER, Munich, Germany. Filed July 19, 1920. Serial No. 397,537. 3 Claims. (Cl. 128—295.)



1. A urinal comprising a receptacle having a neck, a tube having its inner end arranged in and secured to the

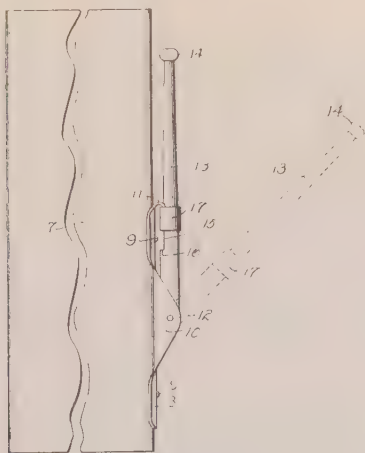
neck, an attaching element secured to said tube, and an elastic truncated-conical sleeve arranged in said tube and having its outer, larger end secured around the outer end of said tube.

1,423,538. ASH RECEPTACLE. RUDOLPH OZABAL, Chicago, Ill. Filed Mar. 10, 1921. Serial No. 451,111. 2 Claims. (Cl. 131—51.)



2. An ash receptacle comprising a ring adapted to be secured to the under side of a table top or the like, a tray having an outwardly extending apertured lug, and means for pivotally securing the tray to the ring, the means comprising a U-shaped member formed integrally with the ring, the lug being interposed between the legs of the U-shaped member, a pin secured in the legs of the U-shaped member and passing through the aperture in the lug, and a spring disposed around the pin and interposed between one of the legs of the U-shaped member and the lug.

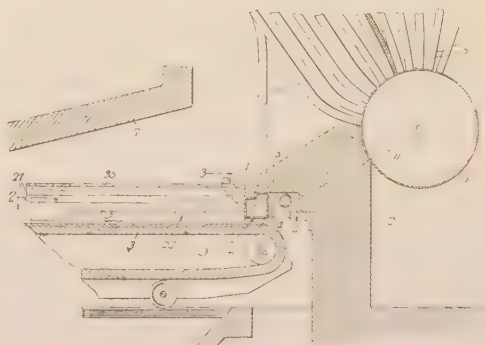
1,423,539. POCKETBOOK PROTECTOR. MARTIN J. PALMER, Chicago, Ill. Filed Sept. 3, 1921. Serial No. 498,510. 4 Claims. (Cl. 150—47.)



1. A protector for pocket books and the like comprising an elongated plate adapted to be secured to a book longitudinally thereon, said plate having at one of its ends a hook, an arm pivoted at one of its ends to the said plate below the hook thereon and having in its surface adjacent the hook a longitudinally disposed slot for the reception of said hook, and a sleeve slidably mounted on the arm and adapted for engagement with the hook.

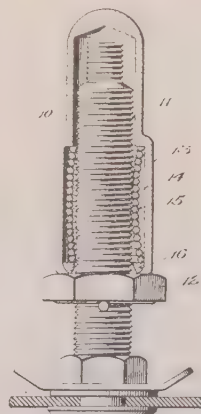
2. A protector for pocket books and the like comprising an elongated plate adapted to be secured to a book longitudinally thereon, said plate having at one of its ends an outwardly disposed hook, a spring actuated arm pivoted at one of its ends to the said plate below the hook thereon and having in its surface adjacent the hook a longitudinally disposed slot for the reception of said hook, said arm also having a stop member located at a distance from the upper end of said slot, and a sleeve slidably mounted on the arm above said stop member and adapted for engagement with the hook.

1,423,540. LIQUID-COOLED CONDUIT FOR FURNACES. HERMAN A. POPPENHUSEN, Hammond, Ind., assignor to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Dec. 22, 1919. Serial No. 346,473. 10 Claims. (Cl. 122—292.)



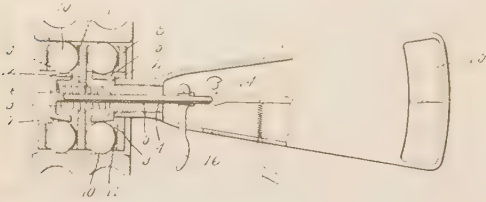
1. In a furnace, the combination with a combustion chamber and a grate therein, of a water-cooled conduit associated with one of the walls of said combustion chamber and having inlet and outlet openings, said conduit lying in direct contact with the fuel bed on the grate and having an enlarged portion projecting outward from the body portion of the conduit and forming a vapor collecting chamber in communication with said outlet, and means associated with said wall and extending in front of said enlarged portion to shield the same from the direct heat of the fuel bed.

1,423,541. VALVE-STEM CAP. EDWARD D. ROCKWELL, Bristol, Conn. Filed July 8, 1920. Serial No. 394,662. 3 Claims. (Cl. 152—12.)



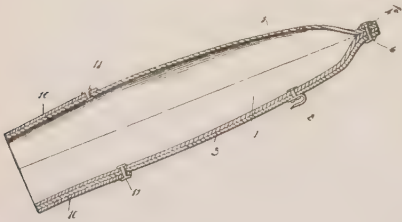
3. The combination of a valve stem cap for threaded valve stems, longitudinally spaced annular shoulders on the interior of the cap, and a transversely distorted spring composed of a series of spaced helically disposed coils held within the cap between said shoulders and adapted to interlock with the threads on the valve stem, said spring being of greater length than the distance between said shoulders and compressed between said shoulders whereby the spring and cap are frictionally secured together and rattling of the cap prevented, and said cap being rotatable on the stem independently of the spring.

1,423,542. BORE GAUGE. HUGH M. ROCKWELL, Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del., a Corporation of Delaware. Filed Dec. 1, 1919. Serial No. 341,771. 15 Claims. (Cl. 33—178.)



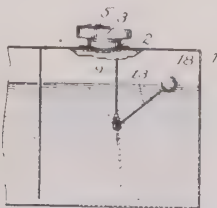
1. In a device of the character described, members having oppositely disposed tapered peripheral surfaces, said members being movable relative to each other, a holder loosely surrounding said members and having a rib extending between said members, contact elements carried by said holder and adapted to contact with said members and the material to be gaged, and indicator means operatively associated with said members.

1,423,543. HUSKING MITTEN. MICHAEL SAUTTER, Spokane, Wash. Filed Oct. 14, 1920. Serial No. 416,817. 2 Claims. (Cl. 2—102.)



1. A husking mitten comprising a textile base, a reinforcing strip disposed upon the back of said base along the edges thereof, a facing member covering the palm portion of said base, the edges of the base being disposed between the reinforcing strip and the facing, headed fastening devices inserted through the said base and the palm facing, and other headed fastening devices inserted through the reinforcing strip.

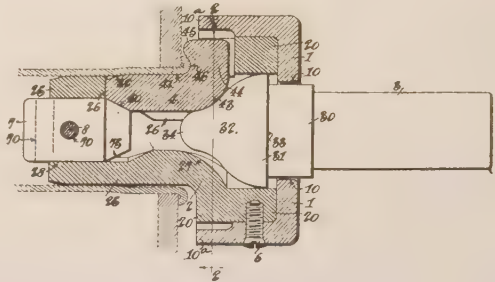
1,423,544. TANK GAUGE. WILFRED J. SCHAEGLER, Brooklyn, N. Y. Filed Jan. 12, 1921. Serial No. 436,690. 2 Claims. (Cl. 73—82.)



1. A liquid gauge comprising, in combination, a hollow head having a filling passage therethrough and adapted to be fixed in a filling opening in the top of a tank, an indicator portion carried by said head, a supporting rod depending from said head, a bracket fixed to the lower end of said supporting rod, a float member, a rod carrying said float member, said rod having a lateral portion journalled in said bracket about midway between the top and bottom of the tank so that said float member is adapted to swing

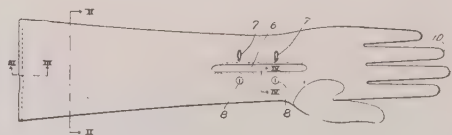
through an angle of substantially 180 degrees, a vertical spindle journalled at its lower end in said bracket, a pointer fixed to the upper end of said spindle and working in the indicator portion of said head, and gears connecting said float-carrying rod and said vertical spindle.

1,423,545. COMBINED TUBE EXPANDER AND BEADING TOOL. JOHN JAMES SMITH, Winnipeg, Manitoba, Canada. Filed Dec. 20, 1921. Serial No. 523,794. 6 Claims. (Cl. 153—80.)



1. In a combined tube expanding and beading tool, a cup-shaped body having an axial opening, a cage including a tubular shank insertable into the tube end to be worked, the said cage having a plurality of radially extended chambers that open from the bore of the shank through the peripheral face thereof, a combined expanding and beading element mounted, one in each of the said chambers in the cage, an expanding mandrel that extends through the axial openings in the cup-shaped body and engages the combined tube expanding and beading elements and adapted, as it is being forced lengthwise into the body portion and the cage to hold the several expanding and beading elements in working engagement with the tool, and means mounted upon and cooperative with the cage for regulating the set of the said expanding and beading elements to suit the diameter of the tube being worked.

1,423,546. REVERSIBLE GLOVE. JEANNETTE LOWRIE SPEER, Trappe, Md. Filed Apr. 5, 1921. Serial No. 458,789. 4 Claims. (Cl. 2—9.)

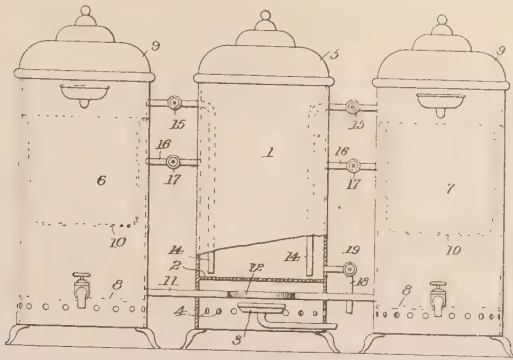


1. A reversible glove, comprising inner and outer gloves fitting one within the other and united to form a single composite glove, the unfinished seams of the inner glove facing the unfinished seams of the outer glove whereby said single glove may be reversed and worn on the opposite hand.

1,423,547. COFFEE URN. HENRY J. STROHBACH, New York, N. Y. Filed Dec. 9, 1921. Serial No. 521,164. 2 Claims. (Cl. 53—3.)

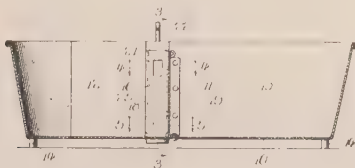
1. The combination with a boiler, of a burner for heating said boiler arranged a short distance below its bottom,

of a percolator at one side of the boiler, and a conduit extending from the percolator to a point over the burner



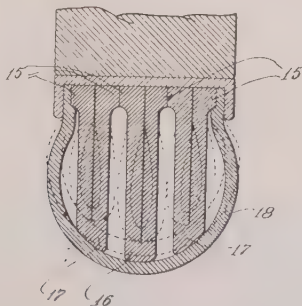
and spaced below the bottom of said boiler, whereby said burner heats said conduit as well as the entire bottom of said boiler.

1,423,548. DISHPAN. EDWARD GORDON TAYLOR, Madison, Wis. Filed Sept. 6, 1921. Serial No. 498,762. 6 Claims. (Cl. 141—11.)



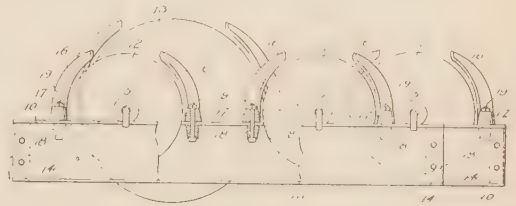
1. As a new article of manufacture, a dish pan having a transverse partition dividing the same into washing and rinsing compartments, a tubular valve casing mounted in said pan and formed with separate drain ports communicating with said washing and rinsing compartments respectively, and a hollow valve rotatable in said casing and opening at its lower end through the bottom of said pan, said valve having a drain port adapted to register with either drain port of said casing.

1,423,549. TIRE. JOHN J. P. WALSH, New York, N. Y. Filed June 2, 1920. Serial No. 385,923. 10 Claims. (Cl. 152—1.)



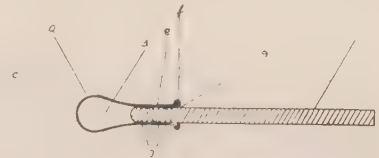
3. In a vehicle tire, comprising in combination, a plurality of individual flat resilient rings of varying outer diameters unyieldingly held together at their inner circumference, a normally closed annular slot provided in each of said rings, the outer diameters of the slots being smaller than the outer diameters of their respective rings, annular spaces provided between the individual slotted rings adapted to facilitate the spreading of the rings and the opening of the slots when pressure is applied.

1,423,550. CROWN BLOCK CABLE GUARD. VICTOR W. ZILEN, Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn., a Corporation of Tennessee. Filed Sept. 13, 1921. Serial No. 500,465. 7 Claims. (Cl. 254—190.)



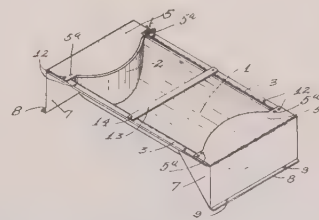
1. In a crown block, the combination of spaced frame members, sheaves journaled on the frame members and positioned in said spaces, guards for each of said sheaves, said guards being movable toward and away from their respective sheaves to vary the distance between the sheaves and their respective guards.

1,423,551. TOY ARROW. ADRIAN D. ADRIANCE, Brooklyn, N. Y. Filed Apr. 6, 1921, Serial No. 459,094. Renewed June 9, 1922. Serial No. 567,234. 1 Claim. (Cl. 102—26.)



A toy arrow comprising a flexible tubular, air filled tip, having an enlarged closed end and a contracted open end, a shaft having a grooved end firmly inserted in said contracted end and gripped thereby, and cement to fill said grooves, to assist in fastening said nipple to said shaft and to seal in the air.

1,423,552. TROUGH. GEORGE G. BAYNE, Bushnell, Ill. Filed Feb. 24, 1920. Serial No. 360,554. 1 Claim. (Cl. 119—61.)



The combination of a feeding trough comprising an arcuate body of sheet metal and end closures integral therewith, a support therefor comprising an upright sheet metal piece at each end of the trough, triangular flanges on said upright sheets one at each end of each sheet, said flanges extending parallel to the length of the trough and having their upper edges bent to form fastening flanges extending toward the trough, the edges of said triangular flanges away from said upright pieces each extending obliquely upward and toward the other end of the trough, a foot flange on the lower end of each of said upright pieces extending away from the trough, a covering flange extending from the upper edge of each of said upright pieces toward the middle of the trough and covering the end closures, said covering flanges extending laterally as far as the planes of the triangular

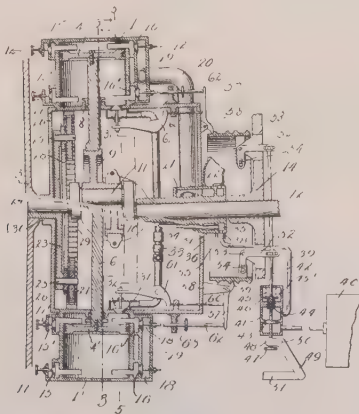
fying indicia, in combination with means for attaching the tag to the article to be shipped, said reinforcing material being secured to said card only at the outer portion of said material so as to permit it to separate from the card when drawn upon by the attaching means.

- 1,423,558. OIL-LEVEL INDICATING ATTACHMENT. FOR CRANK CASES. ALEXIS F. GILLET, Omaha, Nebr., assignor to Jubilee Manufacturing Company, Omaha, Nebr., a Corporation. Filed Oct. 4, 1920. Serial No. 414,447. 1 Claim. (Cl. 73—120.)



In an oil-level indicating attachment for a crank case, a tube having a convex terminal and a circular groove, a rod provided with indicating characters, a disc disposed transversely of and mounted on the end of said rod, a circular cap provided with curved prongs, said cap having a lesser diameter than the diameter of the disc and having its top in engagement with the rod and disc, said rod being adapted to have a movement inwardly to dispose its circular cap outwardly of the tube, the curved prongs of the cap moving upon the convex terminal and engaging in the circular groove of said tube.

- 1,423,559. FLUID-PUMP MECHANISM. FREDERICK CHARLES GUERRICH, Stamford, Conn. Filed Dec. 1, 1919. Serial No. 341,680. 10 Claims. (Cl. 230—37.)



1. In a pump mechanism, the combination of a plurality of pairs of cylinders spaced at angles to one another equal to 360° divided by the total number of cylinders, pistons in said cylinders, piston rods rigidly connecting the pistons of each pair of cylinders, a crank-shaft having a crank-pin, and a connector rotatably mounted upon said crank-pin and having pivotal connections with said rigid piston rods, the angle between lines joining the axis of the crank-pin and any two adjacent pivotal connections

being equal to twice the angle between two adjacent cylinders.

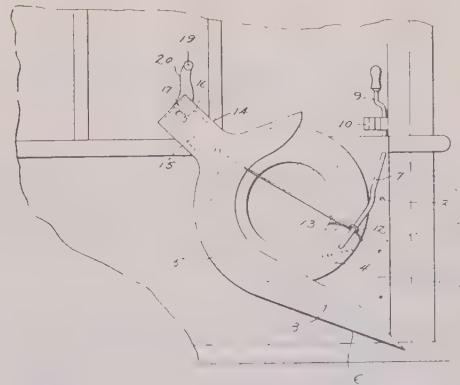
6. In a pump mechanism, the combination of a plurality of pairs of cylinders spaced at angles to one another equal to 360° divided by the total number of cylinders, pistons in said cylinders, piston rods rigidly connecting the pistons of each pair of cylinders, a crank-shaft having a crank-pin, a plurality of rigidly connected eccentrics equal in number to said piston rods and rotatably mounted on the crank-pin of said shaft and embraced by said rigid piston rods respectively, the centers of said eccentrics being displaced relatively to the axis of said crank by twice the angle between two adjacent cylinders and symmetrically arranged relatively to said crank, the distance between the centers of said eccentrics and said crank-pin being equal to the distance between the axis of said crank-pin and the axis of said shaft, regular inlet and outlet ports for said cylinders, supplemental outlet ports for said cylinders, an air chamber connected to said supplemental outlet ports, means for holding said regular outlet ports closed and opening said supplemental outlet ports successively to actuate said pump to charge said air chamber, and means for automatically closing the connection between said supplemental outlet ports and said chamber when the pressure in said chamber reaches a predetermined point.

- 1,423,560. MILK BOTTLE. JOHN G. HALL, Toronto, Ontario, Canada. Filed Apr. 8, 1921. Serial No. 459,562. 1 Claim. (Cl. 215—31.)



A bottle having a rim surrounding its mouth the greater thickness than the body of the bottle, said rim being of substantially even thickness throughout its circumference and having a substantially vertical ticket receiving recess formed entirely therein, the mouth of the recess extending through the upper edge of the rim.

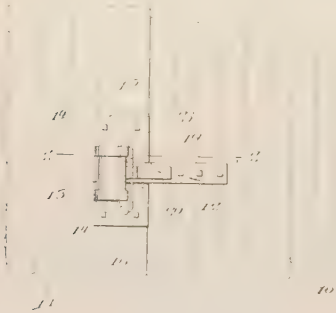
- 1,423,561. DEVICE FOR LAUNCHING RING LIFE BUOYS. SOFUS E. HANSEN, Seattle, Wash. Filed Mar. 25, 1922. Serial No. 546,871. 2 Claims. (Cl. 9—11.)



1. A ring buoy support including a housing for the buoy and an inclined trackway down which the buoy travels

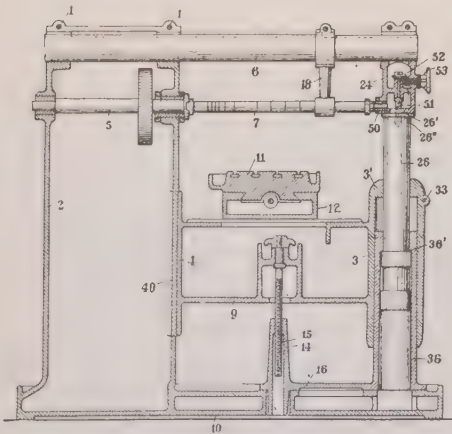
when released, a housing forming part of the support and adapted to receive a water-tight casing, a device carried by the housing and adapted to be connected to a plug in said casing, and a lever adapted to exert a pull upon said casing when operated to release the buoy.

1,423,562. CAR-DOOR LOCK. NIKALAI HILL, Park Falls, Wis. Filed May 18, 1921. Serial No. 470,494. 2 Claims. (Cl. 292—205.)



1. A car door lock comprising a door carried hook, a device carried by the door frame and comprising parallel side members each having a pair of openings therethrough, a cam lever mounted between the side members, a pivot pin disposed through an opening of each side member and through the cam lever, said cam lever being arranged to engage the hook between the side members, the cam lever having a transverse opening arranged to align with the other openings of the side members to receive a seal ribbon therethrough.

1,423,563. RIGID MILLING MACHINE. OSCAR HOPPE, Rorschach, Switzerland, assignor to Richard A. Kempin, Rorschach, Switzerland. Filed Mar. 28, 1921. Serial No. 456,383. 8 Claims. (Cl. 90—18.)

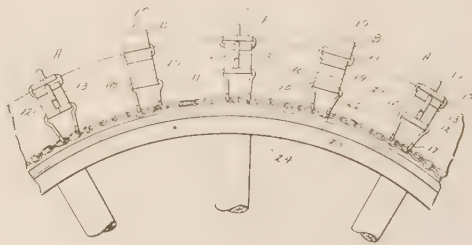


1. A milling machine, comprising a frame having an overhanging arm, a guide column, a support telescopically connected with the latter and adapted to connect the overhanging arm and the guide column, and a work-table bed having an end portion overlapping the guide column and enclosing the connecting support.

1,423,564. NONSKID CHAIN. MORRISON R. JOHNSON, Braymer, Mo. Filed July 21, 1921. Serial No. 486,339. 1 Claim. (Cl. 152—14.)

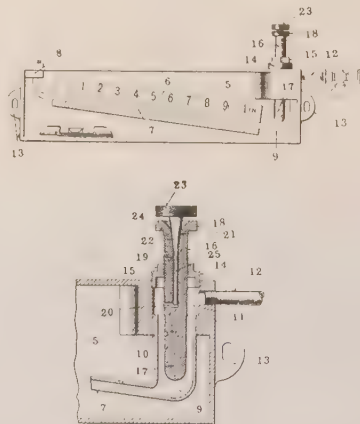
In a non-skid chain, the combination of side members, cross chains between the members respectively comprising

a plurality of links each formed from a sheet metal blank folded upon itself to define overlapping portions providing an upstanding traction rib and bent at its ends to form pairs of companion hinge loops, and other links extending



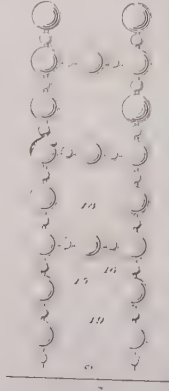
through said pairs of loops pivotally connecting the first links with each other and with the side members as well as limiting the overlapping portions of the first links against spreading.

1,423,565. PRESSURE OR DRAFT GAUGE. WILLIAM KEMP, St. Louis, Mo. Filed Nov. 5, 1920. Serial No. 421,830. 4 Claims. (Cl. 73—31.)



1. In a device of the class described, the combination with a gauge glass having an integral upturned portion forming an oil well, of a regulator stem projecting into said well, supporting means for said stem, said stem being provided with an oil filling passage terminating intermediate of its length, and a removable plug in said oil passage.

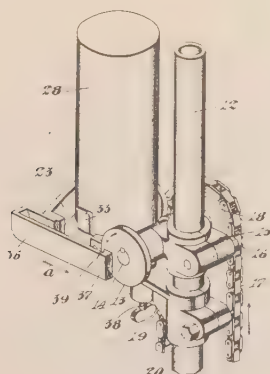
1,423,566. TOY. GUSTAVE A. KING, Chicago, Ill. Filed Jan. 4, 1921. Serial No. 434,992. 1 Claim. (Cl. 46—35.)



A figure toy comprising a plurality of separate sets of units which are detachably connected, one set of units

consisting of spheres and the other set consisting of double-ended pegs, the spheres having holes extending completely therethrough and intersecting each other at right angles, for insertion of the pegs therein, and the pegs having spherical enlargements intermediate their ends.

1,423,567. TOP GLUER. LEON E. LA BOMBARD, Chelsea, and MELVIN H. SIDEBOTHAM, Cliftondale, Mass., assignors to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Feb. 6, 1920. Serial No. 356,703. 16 Claims. (Cl. 91—51.)

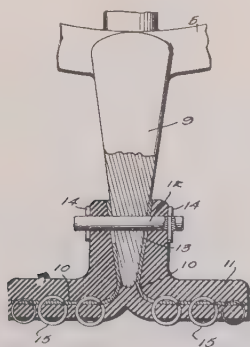


1. A device of the character described comprising a glue holder having a slotted end wall, means for continuously supplying a limited amount of glue to said holder, and a rotary applicer a portion of which substantially fills the slot of said wall, means being provided for preventing glue from being carried out of the holder on the sides of the applicer.

9. A device of the character described comprising a cup, a trough having a slot in one end wall, said trough communicating with the cup, a rotary disk partially located in and closely fitting said slot, and means for adjusting the relative vertical positions of the trough and disk to vary the space between the bottom of said slot and the periphery of the disk.

15. A device of the character described comprising a glue holder having a slotted wall provided with scrapers along the margins of the slot, and a rotary applicer a portion of which substantially fills said slot.

1,423,568. TRACTION LUG. WILLIAM LEVY, Paterson, N. J. Filed Feb. 18, 1922. Serial No. 537,626. 6 Claims. (Cl. 301—44.)



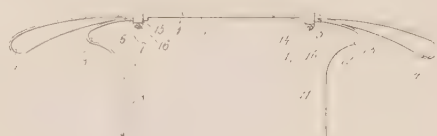
6. An attachment for vehicle wheels comprising a substantially radial lug secured to the wheel at one side thereof, said lug being tapered to decrease in thickness

outwardly of the wheel and being provided with an opening, a pin mounted in said opening, and a pair of traction members each having a portion engaging one of the tapered sides of said lug, the lug engaging portions of said traction members being provided with slots arranged substantially radially of the wheel and adapted to receive the ends of said pin.

1,423,569. WALL BOARD AND PLASTER COMPOSITION ADAPTED THERETO. JAMES A. LOCKHART, Buffalo, N. Y., assignor to Pitho Plastic Board Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 8, 1921. Serial No. 459,737. 5 Claims. (Cl. 106—34.)

1. Plaster composition for wall board comprising plaster of Paris, lime and shredded wood fibres.

1,423,570. RESILIENT FRONT BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Jan. 16, 1920. Serial No. 351,818. Renewed Jan. 26, 1922. Serial No. 532,032. 9 Claims. (Cl. 293—55.)



2. The automobile buffer comprising a resilient buffer front formed of tempered spring steel strip having considerably greater vertical width than thickness and comprising a reenforced central impact receiving portion and end loop portions formed by bending such spring strip back upon itself and securing the ends of such spring strip close to the strip forming the ends of said central impact receiving portion and attaching members cooperating with said end loops and connected to said buffer front.

1,423,571. AUTOMOBILE BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 28, 1921, Serial No. 448,500. Renewed Jan. 26, 1922. Serial No. 532,033. 7 Claims. (Cl. 293—55.)



1. The automobile buffer consisting of two integral spring steel strips having greater vertical width than thickness and each comprising an attaching member and intermediate end loop in substantially the same horizontal plane and an impact receiving buffer front member adjustably arranged in overlapping reinforcing position adjacent the central part of the buffer, said strips being similarly upwardly arched between the connected end loops to form superimposed contact portions extending considerably above said end loops and attaching members, and clamping members to adjustably connect the contact portions of said buffer strips.

1,423,572. AUTOMOBILE BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed May 21, 1921, Serial No. 471,373. Renewed Jan. 26, 1922. Serial No. 532,034. 8 Claims. (Cl. 293—55.)

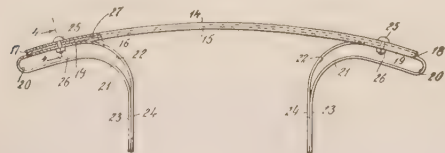
2. The automobile buffer comprising two integral spring steel strips having greater vertical width than thickness and each comprising an attaching member and interme-

diate end loop and an impact receiving buffer front member having a connecting portion arranged substantially in line with the corresponding connecting portion of the other strip adjacent the central part of the buffer, and connecting means connecting said connecting portions and forming substantially superimposed reenforced members



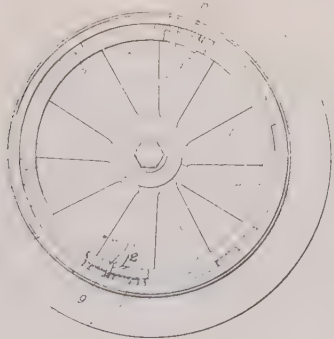
to strengthen this central contact part of the buffer, said impact receiving members being similarly upwardly bent between their end loops and connecting portions to form superimposed central contact portions vertically displaced with respect to said end loops and attaching members.

1,423,573. RESILIENT BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 24, 1920, Serial No. 360,585. Renewed Feb. 8, 1922. Serial No. 535,095. 14 Claims. (Cl. 293—55.)



5. The resilient automobile buffer comprising two resilient strip end loop-attaching elements, each having an attaching portion adapted to be secured to an automobile frame member and having an outwardly extending buffer end loop and an adjacent connector portion and intermediate resilient portions, and a resilient buffer front member cooperating with the connector portions of said attaching elements and adapted to extend adjacent said end loops and cooperating connecting devices detachably connecting said buffer front member with said attaching elements.

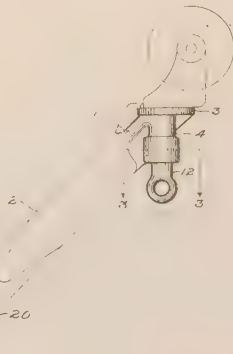
1,423,574. VEHICLE WHEEL. ALEXANDER MAILHOT, Thorold, Ontario, Canada. Filed Nov. 5, 1921. Serial No. 513,071. 1 Claim. (Cl. 301—17.)



In a device as herein set forth, a wheel having a rim provided with spaced peripheral grooves and having notches from one of the sides thereof entering the grooves and one of the walls of each notch being in a line with one of the end walls of each groove, and a tire carrying rim having lugs designed to be passed through the notches

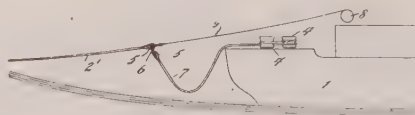
and turned on the wheel rim to be received in the grooves thereof, blocks in the notches in contacting engagement with one end of the lugs, and means for securing the blocks in such position, spring means carried by the blocks contacting the inner walls of the grooves for partly projecting the blocks through the notches, and means for locking the blocks when fully received in the notches.

1,423,575. TROLLEY-ALIGNING HARP. SAMUEL S. MATTHEWS, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Sept. 3, 1921. Serial No. 498,228. 18 Claims. (Cl. 191—60.1.)



2. An aligning collector comprising a body member for attachment to a support, a member comprising means for mounting a collector and a stem for mounting the member on the body, means on the stem to rotate therewith to engage means rotatably mounted on the stem when the stem is rotated in one direction and to engage other means rotatably mounted on the stem when the stem is rotated in the other direction, and stop means to prevent the rotation of each of the two rotatable means in one but opposite direction and yielding means engaging the two rotatable means acting to rotate them in opposite direction.

1,423,576. TOWING VESSELS. THOMAS SPENCER MILLER, South Orange, N. J. Original application filed Mar. 22, 1918, Serial No. 223,931. Divided and this application filed Nov. 10, 1920. Serial No. 422,990. 13 Claims. (Cl. 114—235.)

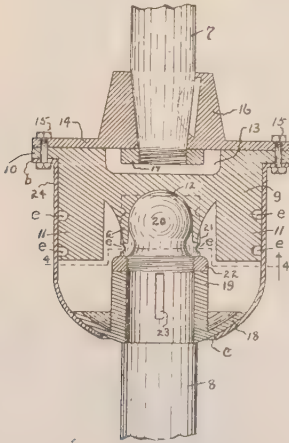


1. In combination, a towing vessel and a towed vessel, a hawser connecting said vessels, a line connected to said hawser at an intermediate point, and a yielding and recovering means connected to said line.

1,423,577. UNIVERSAL JOINT. WILLIAM C. MORTON, Omaha, Nebr., assignor of one-third to Joseph P. Condon and one-third to Ira O. Morton, both of Omaha, Nebr. Filed May 24, 1920. Serial No. 383,915. 1 Claim. (Cl. 64—96.)

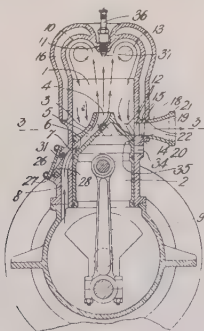
A universal joint for drive and driven shafts, comprising a spherical head on the end of one shaft, a sleeve fitted over said shaft inwardly of the head and having cooperating means on the shaft to prevent end thrust thereof in either direction, said sleeve having a saucer-like flange and arms extending from the sleeve in a direc-

tion substantially parallel with the axis of both shafts and having facets disposed at substantially right angles and with rounded outer surfaces, provided with spaced notches therein, a block composed having a cylindrical portion with an inner annular wall extending about the spherical head and provided with a socket within the wall conforming and turning relatively to the head, said block having arms lying outwardly of the annular wall and extending between the first mentioned arms, said latter arms also having right angularly disposed facets parallel with opposed facets of the first mentioned arms and being further formed with substantially rounded outer surfaces having notches therein, coil springs lying



between the arms and having their ends engaged upon exposed facets, said springs having hooks extending into the notches of the respective arms, said block having a flange projecting outwardly at its edge portion, a disc fitting against the rear portion of the block and secured to said flange and provided with a sleeve fitted over the other shaft and secured to turn therewith, and a casing having a cylindrical portion fitting about said arms and upon the rounded surfaces thereof, and having a flange secured against the flange on said block, said casing also formed with a rounded end portion bearing against the saucer like flange, and having an opening to receive the shaft.

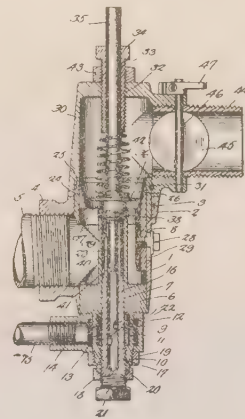
1,423,578. TWO-CYCLE INTERNAL-COMBUSTION ENGINE. ARTHUR G. L. NEIGHBOUR and HARRY C. W. NEIGHBOUR, Brighton, Victoria, Australia. Filed July 23, 1918. Serial No. 246,289. 7 Claims. (Cl. 123—73.)



1. A two-cycle engine comprising a cylinder, a conical boss projecting inwardly and axially from the cylinder and ignition means in said conical boss, an annular combustion chamber of curved cross-section centrally disposed around said conical boss and having a maximum diameter greater than the cylinder diameter, the annular wall of the combustion chamber being inclined inwardly to

the cylinder wall, a transfer port and a transfer passage in the wall of the cylinder, an annular series of exhaust openings in said cylinder wall, a hinged door and a detachable gas-tight cover permitting access to said transfer passage, a detachable casing enclosing said exhaust openings, an exhaust outlet in said detachable casing, a piston in said cylinder, a conical extension on said piston, a port at the side of said piston, a central hole in the apex of said conical extension, a passage connecting the said hole and the said port, and one or more packing rings in the piston between the exhaust openings and the transfer port when the piston is at the end of its power stroke, substantially as described.

1,423,579. CARBURETOR. CHARLES A. NORLANDER, Greenville, Ill., assignor of one-half to Charles E. Davidson, Greenville, Ill. Filed May 9, 1921. Serial No. 467,867. 6 Claims. (Cl. 48—180.)



1. In a carburetor the combination with a casing having an air inlet and a fuel outlet, of a diaphragm in the path of the air passing from the inlet to the outlet, a gas conducting tube within the casing, means movable with the diaphragm and normally engaging the end of the tube to close the gas outlet of the tube, an inner gas conducting tube having an outlet, and means within the inner gas conducting tube and movable with the diaphragm for regulating the flow of gas from the inner tube to the outer tube.

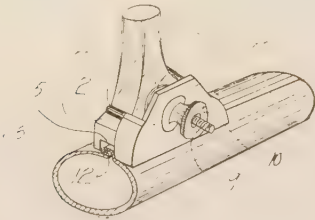
1,423,580. RESILIENT CORE FOR MOTOR TIRES. GEORGE ARTHUR HOWARD ROBBINS and STANLEY FERDINAND ERIC EINSIEDEL, Brisbane, Queensland, Australia. Filed Apr. 27, 1921. Serial No. 464,922. 1 Claim. (Cl. 152—5.)



An improved resilient core for motor tires composed of elastic material having a round base and provided with

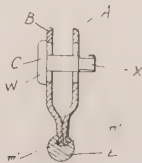
two interior endless and uninterrupted zig-zag air passages whereby constant air circulation is maintained and a uniform resiliency attained throughout the tire.

1,423,581. SEAM-SETTING TOOL. HENRY F. G. SCHUSKE, St. Joseph, Mo. Filed Dec. 9, 1920. Serial No. 429,325. 1 Claim. (Cl. 113--111.)



A seam setting tool, comprising a head and shank; a fixed jaw depending from one edge of the head; guide grooves cut inwardly and downwardly across the ends of the head; a combined jaw and set slidingly mounted in said guide grooves and moving opposite the fixed jaw; an ear extended up from the movable jaw; and a bolt extended from the head through said ear as means for adjusting the jaws.

1,423,582. MEANS FOR THE SUSPENSION OF ELECTRIC CONTACT WIRES. MARCO SEMENZA, Milan, Italy. Filed July 21, 1921. Serial No. 486,562. 3 Claims. (Cl. 191--42.)



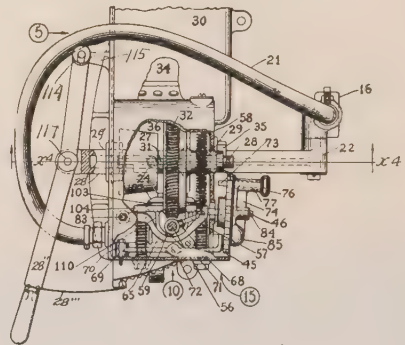
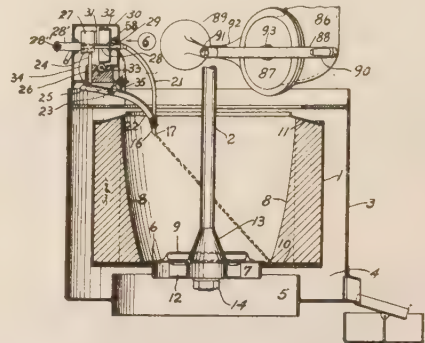
1. A contact-wire holding device comprising a pair of elastic plates fulcruming on each other and forming tongs, the lower ends of the plates being adapted to engage the contact wire when the upper ends of the plates are pressed together to a predetermined point, said elastic plates being placed under tension by further movement of the upper ends of the plates toward each other; and a locking pin having heads at a fixed distance and engageable with said plates while the latter are under tension, for holding said plates together under tension, said locking pin serving as a means for receiving a supporting device for the tongs.

1,423,583. METHOD OF AND MEANS FOR WASHING CENTRIFUGALS. ROBERT ALEXANDER STEPS, Los Angeles, Calif., assignor to Sugar Machinery Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 7, 1920. Serial No. 350,046. 58 Claims. (Cl. 210--67.)

12. In the art of washing sugar centrifugals, the method set forth of sweeping a vertically thin elongated spray of wash water substantially from top to bottom and from bottom to top of said centrifugal.

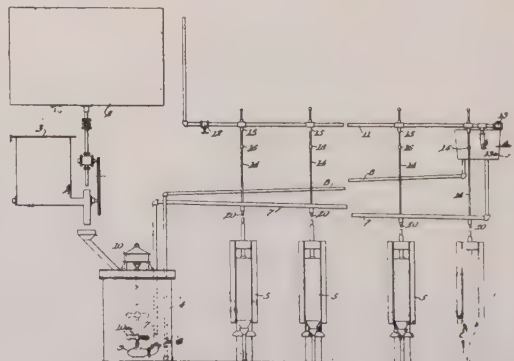
16. The combination with a centrifugal basket and means to revolve the basket; of an oscillating nozzle

adapted to deliver water to the walls of the cavity of the centrifugals in the basket; and means to oscillate the



nozzle at a different speed varying at different levels in proportion to the thickness of the mass of sugar at such levels.

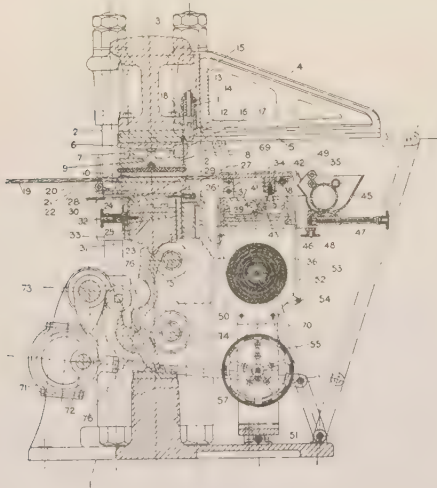
1,423,584. APPARATUS FOR ELECTROLYZING SOLUTIONS. KENNETH E. STUART, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1921. Serial No. 440,740. 10 Claims. (Cl. 204--5.)



1. In a system for feeding a liquid to a container, the combination with a pipe and an orifice for dispensing liquid therefrom, said pipe and orifice constituting a continuous conduit, of means independent of said conduit and the flow of liquid therethrough for passing a cleaning fluid through the said orifice.

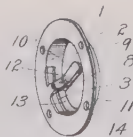
inner end of said shaft within the housing having a plurality of seats formed in one marginal portion thereof, a spring pressed arm pivoted at one end to the inner side of the housing and carrying a roller in its free end engageable with said seats, a light source supported within the housing and extending into said drum, a dial secured to the outer end of the secondary housing having indicia presented upon its face and an indicator carried upon the adjacent portion of the operating shaft co-operable with said dial.

1,423,589. DIE PRESS FOR PRINTING AND EMBOS-
ING. FREDERICK WILLIAM WOOD, Ashton-under-Lyne,
England, assignor to Woods Die Press Improvements
Company, Limited, London, England, a Company of
Great Britain. Filed May 3, 1920. Serial No. 378,674.
6 Claims. (Cl. 101—165.)



1. In a die press for use in printing from engraved plates or dies on paper or other materials, in combination a die acting face downwards and reciprocating in the plane of the die, inker and wiper devices with an interposed scraper immediately above the front edge of the ink reservoir and close to the rear edge of the wiper and means for operating said inker, scraper and wiper devices in unison so that for the operative stroke of the die the inking roller is not brought into contact with the die until after the forward edge of the die has passed its inking position.

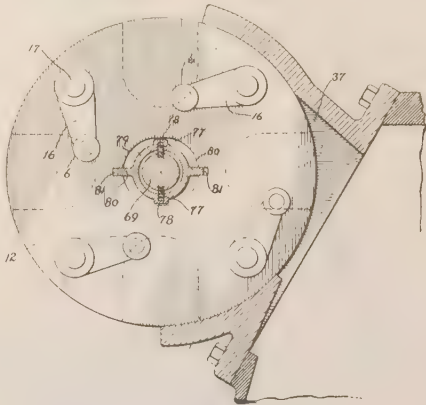
1,423,590. GARMENT FASTENER. WALTER ZIMMER-
MAN, Kansas City, Kans. Filed Sept. 6, 1921. Serial
No. 498,816. 2 Claims. (Cl. 22—224.)



1. As a new article of manufacture, a garment fastener
socket member to receive a complementary mem-
ber, said socket member consisting of stamped-up sheet
metal forming a ring-shaped portion, a socket integral
with the ring-shaped portion and having a slot in its
edge and a slot in its end communicating with the first
named slot, the width of the end slot being less than
the diameter of the socket and the metal cut therefrom
being integral with the ring to provide a tongue integral
with and projecting from the ring-shaped portion to align

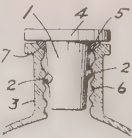
with the end slot, the free end of the tongue being ad-
jacent to the center of the end wall of the socket where-
by the headed portion to be received therein will be held
in intimate contact therewith.

1,423,591. APPARATUS FOR SEALING CONTAINERS.
NEILS P. BACH, Millburn, N. J., assignor to Perfect
Vacuum Canning Company, New York, N. Y., a Cor-
poration of Maine. Filed Feb. 25, 1920. Serial No.
361,248. 1 Claim. (Cl. 113—82.)



In apparatus of the class described, the combination of
a vacuumizing chamber, a port therein, a rotary inlet
valve controlling said port, a seat for said valve, a shaft
carrying said valve, said valve having movement radially
of said shaft and held to its seat in the port by atmos-
pheric pressure.

1,423,592. CLOSURE. FREDERIC E. BALDWIN, Philadel-
phia, Pa. Filed Jan. 10, 1922. Serial No. 528,216. 6
Claims. (Cl. 215—49.)

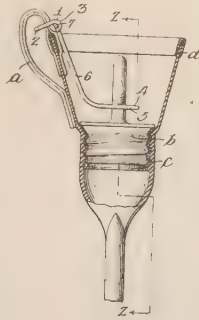


1. A closure having in combination a tapering socket of
glass, a glass thread on the inside of the socket, a moulded
glass plug having means adapted to loosely engage the
thread, the plug being free for endwise movement pro-
vided by clearance between said means and thread, the wall of
the plug where the mould seams occur being of such diam-
eter as will provide space between the seams and the thread
and to prevent the mould seams interfering with the closing
action, a readily deformable gasket circular in cross-
section, and a seat for the gasket adapted to compress the
gasket toward the center of the closure, the gasket being
capable of further compression by endwise pressure on the
plug after the closure has been fully completed by screw-
ing and said gasket adapted for the embedment of the
mould seam therein.

1,423,593. HOLDER FOR HOT-WATER-BOTTLE STOP-
PERS. FREDERIC E. BALDWIN, Philadelphia, Pa. Filed
Jan. 31, 1922. Serial No. 533,071. 1 Claim. (Cl.
215—99.)

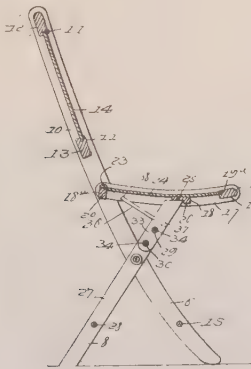
An articulated holder for hot water bottle or bag stop-
pers comprising in combination a yoke adapted for inser-
tion through a bag handle and consisting of a bar having
at its ends angularly disposed arms provided with hinge

elements, and a keeper for loosely embracing the neck of the stopper and comprising a split ring or ring section having at the sides of the split angularly disposed exten-



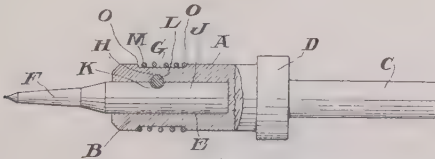
sions provided at their ends with hinge elements and adapted to be sprung onto the neck and into engagement with the first mentioned hinge elements, substantially as described.

1,423,594. FOLDING CHAIR. HARRY E. BARROWS, Sheboygan, Wis., assignor to Dillingham Manufacturing Company, Sheboygan, Wis., a Corporation of Wisconsin. Filed Nov. 16, 1921. Serial No. 515,545. 5 Claims. (Cl. 155—143.)



2. A folding chair of the character described comprising front and hind legs, a seat movably connected to the front legs, and arms mounted between and extending beyond the hind legs for supporting the seat independently of the hind legs.

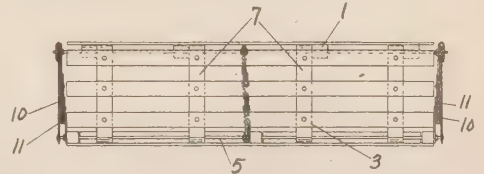
1,423,595. PIN RETAINER FOR TOOL HOLDERS. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 28, 1921. Serial No. 473,417. 8 Claims. (Cl. 279—97.)



1. A device for removably retaining a tool in a holder, comprising in combination a holder having a hollow socket portion, a tool having a shank fitting said socket, a removable transverse pin loosely engaging both the holder and tool shank, and a longitudinally displaceable retaining member having a plurality of individually and longitudinally

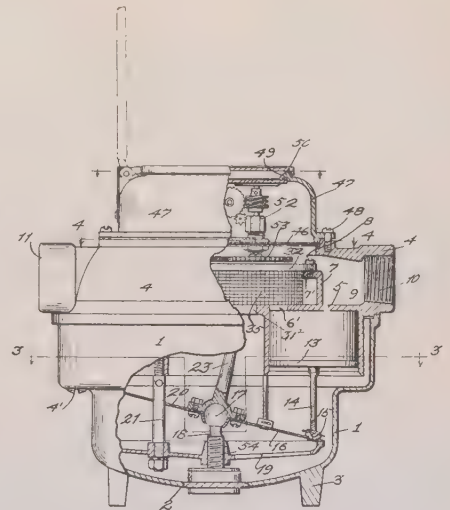
displaceable portions upon the periphery of the holder for holding said pin in position, provision being afforded for inserting and withdrawing the pin through the retaining member by longitudinally displacing parts of said retaining member.

1,423,596. FOLDING CRATE. ARTHUR H. BLAKEMORE, St. Louis, Mo. Filed Sept. 20, 1919, Serial No. 325,152. Renewed May 18, 1922. Serial No. 562,034. 11 Claims. (Cl. 217—47.)



1. A folding crate, including collapsible end frames, each of the latter including two stepped, parallel, spaced and similarly positioned end braces, and parallel slats extended between and pivotally attached to the steps of said end braces, so that the ends of the slats upon one side of the crate will fall outwardly of one of the end braces, and inwardly of the other of the end braces.

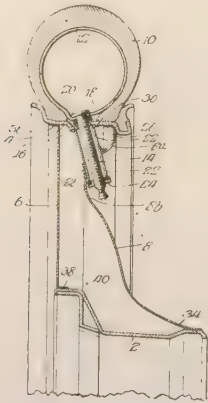
1,423,597. METER. HOSMER BLUM, San Francisco, Calif., assignor of one-half to Bryon C. Joy, Los Angeles, Calif. Filed June 17, 1919. Serial No. 304,774. 6 Claims. (Cl. 73—30.)



1. A meter comprising a casing provided on its interior with a chamber having a fluid inlet passage and formed with top and bottom walls, said top wall provided with an outlet opening and said bottom wall provided with a plurality of ports successively through which the fluid admitted under pressure into said chamber passes in opposite directions, and said casing provided with a fluid outlet passage communicating with said chamber through said opening in the chamber top wall, a ported disk valve movably mounted within said chamber and formed with a solid periphery and resting on said chamber bottom wall, a packing associated with the opposite face of said valve and cooperating with the chamber top wall, a plurality of cylinders associated with the underside of said chamber bottom wall, one cooperating with each of said ports, a piston within each cylinder, means cooperating with said pistons

for operating said valve within said chamber to successively position said ports successively in communication with said inlet passage and said outlet passage, and a register operated by the movement of said pistons.

1,423,598. METAL DISK WHEEL. JAMES A. CHARTER, Chicago, Ill. Filed Mar. 17, 1922. Serial No. 544,445. 7 Claims. (Cl. 301-63)



1. A hollow metal wheel comprising a tire supporting rim carried from a hub by two separated metallic disks, the front disk having adjacent to the rim an annular groove so as to allow a straight inner tube valve stem which passes through a point approximately midway between the disks to extend diagonally through said front disk at a point in the side thereof, whereby the outer end of such a valve stem is free to receive conventional forms of valve nut and air chuck on an air supply hose, and yet is free from danger of being curbed while the wheel is in operation.

1,423,599. HOSE-SUPPORTER BUTTON AND METHOD OF MAKING SAME. LEWIS D. CHRISTIE, Nichols, Conn., assignor to Albert Oppenheim, New York, N. Y. Filed June 17, 1921. Serial No. 478,281. 6 Claims. (Cl. 29-14S.)

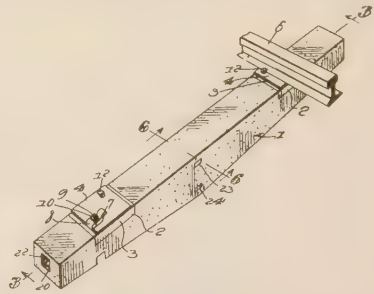


1. The method of making clasp-studs which consists in forming the stud comprising a base, a shank and a substantially circular head from a wire blank with the head upturned at an acute angle to the shank, then slipping a tubular collet over the head and onto the shank, and then bending the head down to hold the collet in place.

1,423,600. CEMENT TIE AND RAIL FASTENER. ADAM L. CRANE, Fort Mill, S. C. Filed Feb. 18, 1922. Serial No. 537,551. 3 Claims. (Cl. 238-91.)

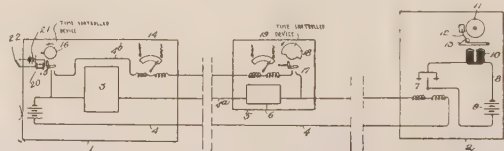
1. In a tie, a plastic tie body, wherein its central portion is relatively thick and has its under surface tapered or inclined upwardly from said relatively thick portion to the ends of the tie, upper and lower reinforcing tie rods embedded in the tie body, the lower reinforcing tie rods conforming to the contour of the bottom of the tie, upper and lower transverse reinforcing plates or bars, the upper bar

overlying the longitudinal-reinforcing rods, the lower bar underlying the lower longitudinal reinforcing rods, verti-



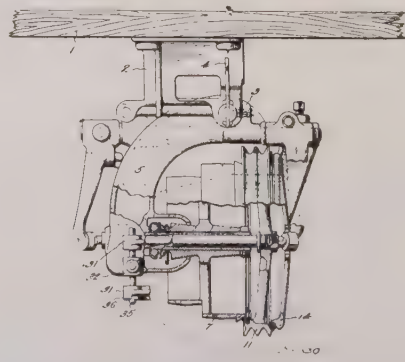
cal rods connecting the transverse bars, rails to rest upon the tie, which is provided with cushioning supports for the rails, and means for fastening the rails in position.

1,423,601. DETECTOR FOR ALARM SYSTEMS. FRANKLIN E. CRAWFORD, Winchester, Mass., assignor to Bankers Electric Protective Association, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1918. Serial No. 249,375. 5 Claims. (Cl. 177-314.)



1. In an electrical burglar alarm system, a guarded structure, an alarm station, an electrical circuit for controlling actuation of the alarm at said station, said circuit comprising two paths at the guarded structure, one a door circuit controlled by the door and the other a supplementary circuit excluding the door, means to control the supplementary circuit at said guarded structure, a detector station distant from said guarded structure, said supplementary circuit passing through said detector station, and mechanism at said station for controlling the supplementary circuit independently of said controlling means at said guarded structure, and a second guarded structure containing the control mechanism at the detector station.

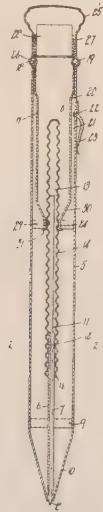
1,423,602. DRESS GUARD. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Apr. 1, 1918, Serial No. 225,935. Divided and this application filed Oct. 30, 1918. Serial No. 260,251. 11 Claims. (Cl. 74-56.)



1. In a power-transmitting device, a bracket, a hanger adjustably suspended from said bracket, driving and

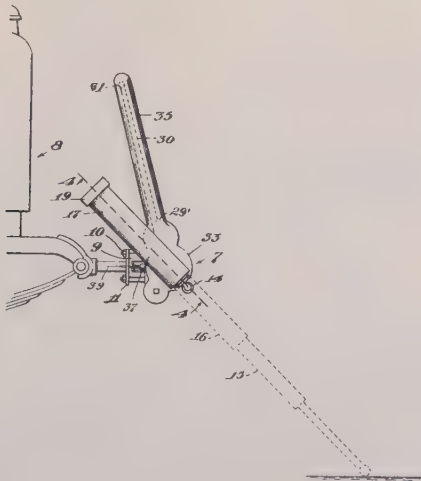
driven pulleys supported by said hanger, and a dress-guard mounted in said hanger to swing outwardly about a vertical axis to afford access to said pulleys.

- 1,423,603. PENCIL. WILLIAM P. DE WITT, Somerville, and DAVID J. LA FRANCE, Cambridge, Mass., assignors, by mesne assignments, to De Witt-La France Co., Cambridge, Mass., a Corporation of Massachusetts. Filed Oct. 2, 1919. Serial No. 327,839. 5 Claims. (Cl. 120—18.)



5. In a magazine pencil the combination of a tubular magazine having a circumferential groove; a tubular casing surrounding the magazine and having a rim engaging the circumferential groove of the magazine to permit rotation of the parts relatively to each other; a cap for the magazine covering the juncture of the magazine with the casing and effective to rotate the magazine; a lead guide co-axial with the casing and the magazine; an ejector in line with the lead guide; and means for translating rotary movement of the magazine into longitudinal movement of the ejector.

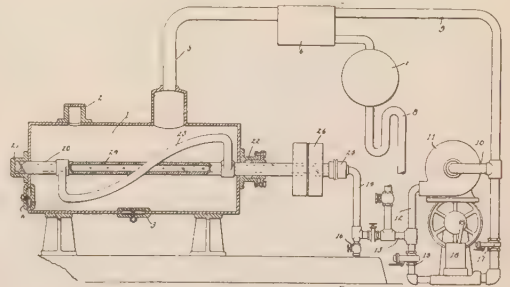
- 1,423,604. BUMPER-BAR FENDER. WILLIAM W. EDWARDS, Los Angeles, Calif. Filed Jan. 17, 1921. Serial No. 437,753. 6 Claims. (Cl. 293—25.)



1. In a vehicle fender, a frame embodying telescopic side portions, each of which comprises a plurality of tubes

adapted to be telescoped together, a series of helical springs arranged in each tube adapted to act on the adjacent tubes, said springs being compressed when the tubes are in their telescoped position, means for holding the tubes telescoped in opposition to the springs adapted to be released, and a fender carried by said telescoping members adapted to be moved into operative position on extension of said telescoping members.

- 1,423,605. METHOD OF MAKING DRY SOLUBLE LIME-SULPHUR COMPOSITION. EDWARD H. FRENCH, Columbus, Ohio. Filed Aug. 11, 1919. Serial No. 316,615. 4 Claims. (Cl. 23—13.)



1. The method of preparing soluble lime-sulphur which consists in evaporating a lime-sulphur solution in an atmosphere of nonoxidizing gas.

- 1,423,606. HAIRPIN. THOMAS GREGORY, Cleveland, Ohio. Filed Aug. 25, 1921. Serial No. 495,242. 2 Claims. (Cl. 132—51.)

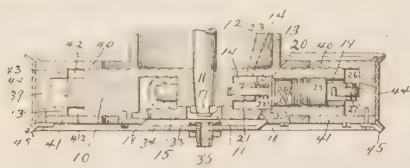


2. A hair pin formed of a piece of wire substantially U-shaped, said wire being split adjacent the upper end of one arm forming a pair of members, said members being extended to form loops spaced from each other in the plane of said arms, said members being then extended to form an arm substantially parallel to said first portion and being pivotally connected to each other adjacent said spaced loops, the portion of said members beyond said pivot being parallel to and normally contacting with each other.

- 1,423,607. TIRE-OPERATED MULTIPLE AIR PUMP. DANIEL F. GROAT, Fort Dodge, Iowa. Filed Apr. 17, 1920. Serial No. 374,561. 7 Claims. (Cl. 230—31.)

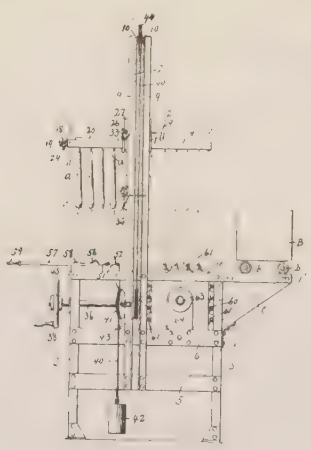
1. A tire operated air pump, comprising a non-tubular axle, a wheel member mounted on and for rotation with said axle and formed with radial cylinders and also formed with an annular air chamber communicating with said cylinders and devoid of communication with said axle, valves controlling the communication between said chamber and cylinders, pistons mounted for reciprocation in said cylinders and adapted to discharge air to said cham-

ber, means for returning said pistons from the compression strokes thereof, and a rim loosely mounted on said



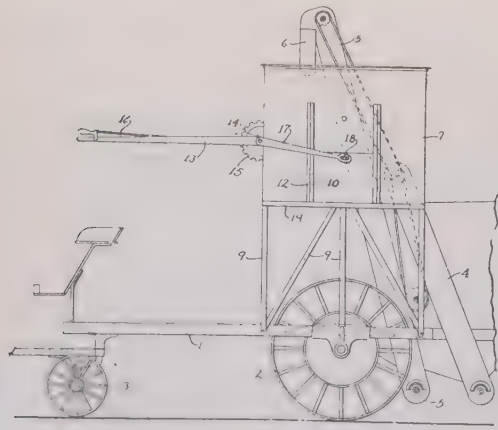
wheel member and adapted successively to engage and produce compression strokes of said pistons.

1,423,608. CANDLE-MAKING MACHINE. ROBERT GROSSMANN, Syracuse, N. Y., assignor to The Will & Baumer Candle Company, Syracuse, N. Y., a Corporation of New York. Filed Apr. 13, 1922. Serial No. 552,200. 12 Claims. (Cl. 18—27.)



1. In a candle making machine, the combination of a candle cutting device having a multiplicity of cutters, a candle carrier having means for supporting a multiplicity of candles in alinements with the cutters, means for operating the carrier to bring the candles into position to be cut by the cutting device, and means for operating the cutters into cutting engagement with the candles.

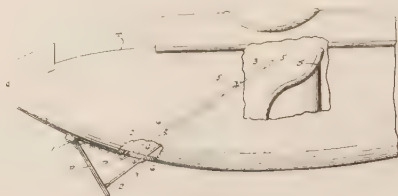
1,423,609. GRAIN CARRIER. ORRIN B. HALL, Oatville, Kans. Filed Aug. 1, 1921. Serial No. 488,920. 2 Claims. (Cl. 198—12.)



1. In combination with a combined grain harvester and separator including a framework, elevator and bull wheel;

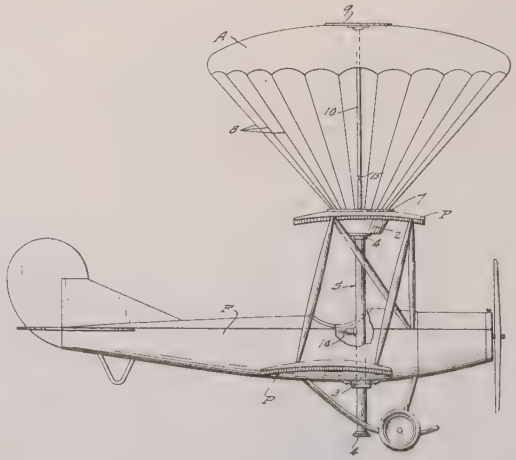
a grain tank arranged beneath the outlet of said elevator and supported above the bull wheel by frame elements; a downwardly and outwardly sloping floor for said tank, and a gate, normally closed, arranged in the outer wall of said tank in a plane parallel to but beyond the plane of the outer face of the bull wheel.

1,423,610. AEROPLANE. JOHN HAYES, Belle Vernon, Pa. Filed Feb. 15, 1922. Serial No. 536,723. 2 Claims. (Cl. 244—29.)



2. In combination with the nose portion of the fuselage of an aeroplane, the bottom wall of the fuselage being provided with an opening, a plane underlying said nose portion, means for hingedly connecting the forward marginal portion of the plane to the fuselage for swinging movement toward or from the fuselage, and a rod operatively engaged with the rear marginal portion of the plane and extending within the fuselage through the opening in the bottom wall thereof, said rod providing means within the fuselage for swinging the plane toward or from the bottom of the fuselage, said rod having a shoulder contacting with the bottom wall of the fuselage adjacent the slot when the plane has been moved away from the fuselage, said rod being movable within the opening to disengage the shoulder from the bottom wall of the fuselage, said opening being of a size to permit the shoulder when disengaged to pass therethrough.

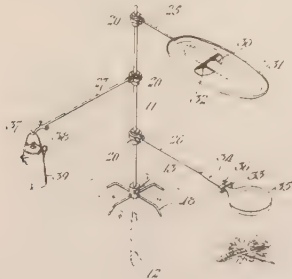
1,423,611. AEROPLANE. JOHN HAYES, Belle Vernon, Pa. Filed Feb. 15, 1922. Serial No. 536,724. 3 Claims. (Cl. 244—21.)



2. In combination with the fuselage of an aeroplane and a supporting plane therefor, said plane being provided with an opening, a parachute, flexible means for connecting said parachute to the portion of the plane defining the opening, said parachute when collapsed being insertable through the opening in the plane, a rod secured to the central portion of the parachute, a tubular standard carried by the fuselage and extending from the plane through the pit of the fuselage, said rod being telescopically engaged within the standard, means placed under tension when the rod is forced inwardly of the standard to force

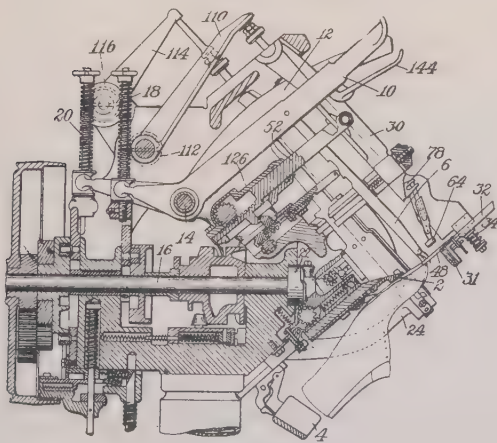
the rod and parachute outwardly through the opening in the plane, a sliding bolt carried by the standard, and means for constantly urging said bolt inwardly of the standard, the rod having a shoulder with which the bolt engages when the rod is moved inwardly of the standard.

- 1,423,612. CAMP UTENSIL. HAROLD H. JEWETT. Puente, Calif. Filed May 5, 1919. Serial No. 295,203. 1 Claim. (Cl. 126—30.)



A camp utensil comprising a stake having a pointed end arranged to enter the ground, a spider on said stake having outwardly extending pivotally mounted legs arranged to engage the ground, a series of collars slidably mounted on said stake, means for fixing said collars in adjusted position on said stake, a head rotatably mounted on each collar, an arm mounted in each head extending outwardly therefrom, and means for securing said arms in said heads to prevent turning of the arms in the heads.

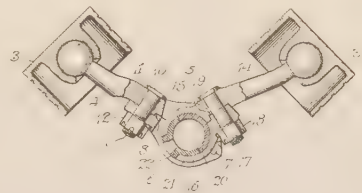
- 1,423,613. MACHINE FOR WORKING UPPERS OVER LASTS. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 25, 1918. Serial No. 264,038. 38 Claims. (Cl. 12—10.)



1. A machine for working an upper over a last and securing it to an insole by adhesion having, in combination, upper pulling means, means for bending the margin of the upper inwardly over the insole, said bending means being mounted for inward movement lightly along the surface of said margin without substantial pressure against the insole, and additional means con-

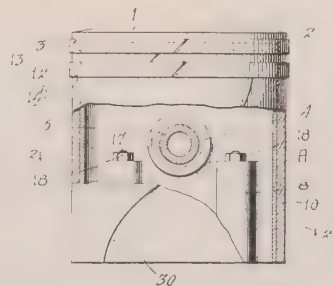
structed and arranged to engage the inwardly bent margin of the upper and to press it into adhering relation to the insole while the margin is thus lightly held by the bending means.

- 1,423,614. CONNECTING ROD FOR DRILLS, ETC. HENRY J. KINMAN, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 14, 1919. Serial No. 325,902. 7 Claims. (Cl. 74—17.)



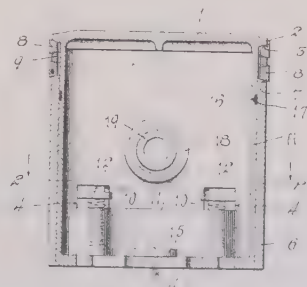
1. Connecting means between the crank shaft and pistons of a multiple cylinder engine consisting of two connecting rods, and a bushing cooperating with said rods and having a perforated projecting portion, the inner or bearing end of one of the rods having an opening to receive such projecting portion.

- 1,423,615. PISTON. HERMAN KISTNER, Elizabeth, N. J. Filed June 7, 1921. Serial No. 475,663. 12 Claims. (Cl. 74—108.)



1. A piston including a body having outwardly opening recesses in the walls thereof, a sleeve slidably on said body exteriorly thereof, and means arranged within said recesses for securing said body to said sleeve.

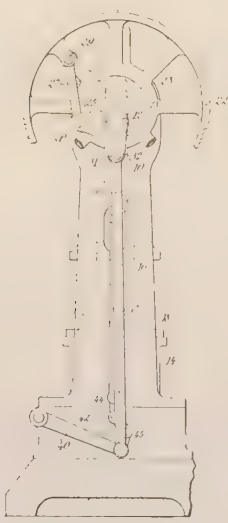
- 1,423,616. PISTON. HERMAN KISTNER, Elizabeth, N. J. Filed June 7, 1921. Serial No. 475,664. 8 Claims. (Cl. 74—108.)



1. A piston including a body having a plurality of lugs thereon, a sleeve slidably on said body exteriorly

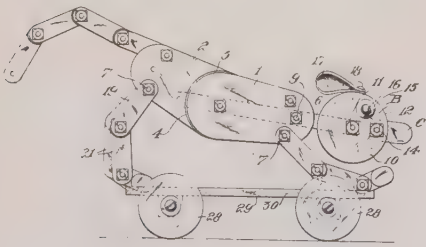
thereof, members adapted to be detachably connected to said lugs, and means carried by said members for securing said sleeve on said body.

1,423,617. PRESS. WILLIAM KLOCKE, Woodhaven, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed May 15, 1920. Serial No. 381,777. 8 Claims. (Cl. 113—38.)



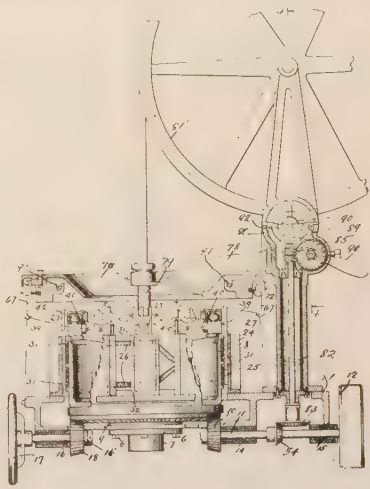
1. A press comprising a punch, a die, means for driving said punch with a uniform motion on its working stroke, said means comprising a part to which said punch is connected, having a crank motion, whereby said punch has definite limits to the extremes of its movement.

1,423,618. FIGURE TOY. JOSEPH C. LACKEY, Long Branch, N. J. Filed Mar. 2, 1921. Serial No. 449,084. 11 Claims. (Cl. 46—45.)



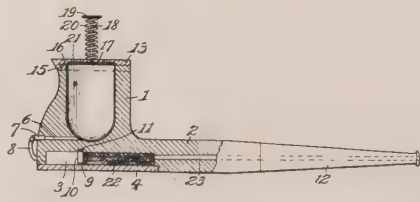
1. A figure toy including a body portion formed of a pair of parallel sections each comprising a pair of members arranged end to end, the inner end of one member of each section overlapping the inner end of the member at the opposite end of the other section, a strip arranged longitudinally between said sections movable with one pair of adjacent members of said sections and overlapping the joints between said members, and pivotal means extending through the said strip and the inner ends of the members at opposite ends of said sections.

1,423,619. LOOM. EVARTS G. LOOMIS, Newark, N. J., assignor to The Okonite Company, Passaic, N. J., a Corporation of New Jersey. Filed July 23, 1921. Serial No. 486,987. 28 Claims. (Cl. 139—7.)



1. In a loom for weaving tubular fabric, tension fingers cooperating with the wrap threads, a pivoted bearing for each finger, and locking mechanism for locking a finger out of operative position.

1,423,620. TOBACCO PIPE. JOHN MESAROS, Wheeling, W. Va. Filed June 24, 1920. Serial No. 391,328. 4 Claims. (Cl. 131—12.)

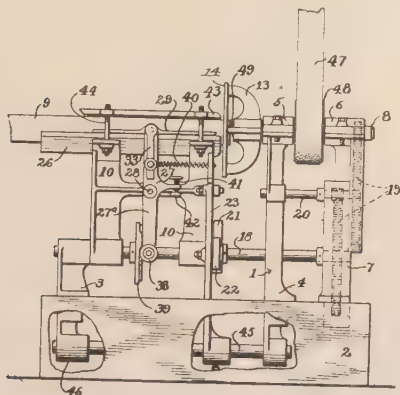


4. In a tobacco pipe, a bowl having a stem, said bowl having a chamber formed in the lower part thereof, a flat plate slidable into and out of closing relation to said chamber, a passageway for smoke leading from the interior to the exterior of said bowl, a plurality of passageways leading from the interior of said chamber near the front portion thereof to the exterior of said bowl, tubes connecting the exterior openings of said bowl passageway with those of said chamber passageways whereby smoke may pass from the interior of said bowl to and into said chamber, said passageways and tubes constituting means whereby smoke is cooled in passing from said bowl to said chamber, a frame having a fabric covering removably disposed within said chamber intermediate its ends and extending from side to side thereof for dividing the same into two compartments, and a filtering packing removably disposed within said chamber rearward of said frame.

1,423,621. HEEL LOG CUTTING MACHINE. JOHN E. MITCHELL and DENNIS PARKS, St. Louis, Mo. Filed July 19, 1920. Serial No. 397,490. 12 Claims. (Cl. 143—52.)

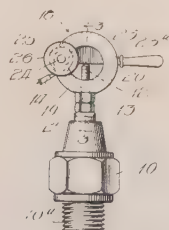
1. In a heel log cutting machine, the combination of a frame, a shaft mounted to rotate therein, a spider carried by the end of the shaft, a cutter attached to the spider having a central opening formed with

a cutting edge located with the center of the opening substantially on the axis of the shaft, movable log supporting means mounted on the frame for holding the heel log with its end projecting into the opening, and



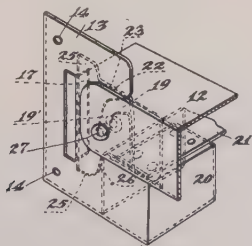
means for imparting a lateral rocking movement to the log supporting means to move the log against the edge of the cutter, and thereby sever a lift from the log, the said spider operating to permit the severed lift to fall after the same has been severed.

1,423,622. SPARK-TESTING DEVICE FOR GASOLINE ENGINES. WILLIAM P. MOTT, Chicago, Ill. Filed Mar. 29, 1919. Serial No. 286,097. 5 Claims. (Cl. 175—183.)



2. The combination with a threaded terminal, of an insulating member having a threaded engagement with said terminal, said insulating member having an aperture therethrough into which said terminal is adapted to project, a switch blade mounted on said insulating member and adapted to contact with said terminal within said aperture, and means for connecting said switch blade in a circuit.

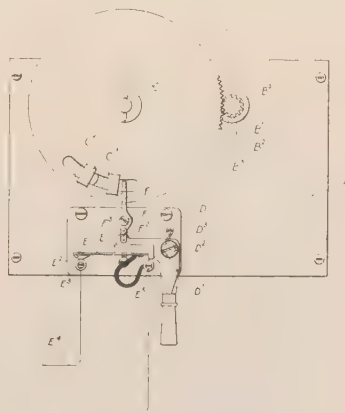
1,423,623. BED-RAIL FASTENER. ALEXANDER S. PUTNAM, Los Angeles, Calif. Filed Oct. 1, 1921. Serial No. 504,556. 3 Claims. (Cl. 5—55.)



2. In a bed rail fastener, a corner post, a plate, having a portion seated in a slot in said post, means for securing said plate to said post, a flange projecting laterally from

said plate and bearing against the outer face of the post, there being an inverted L-shaped slot formed in the outer portion of said plate, a side rail, a plate secured to the end of said side rail, and a rivet seated in said plate and side rail and adapted to occupy the slot in the first mentioned plate.

1,423,624. LIMIT SWITCH FOR ELECTRIC-DRIVEN HOISTS. ROY E. RICE, Bucyrus, Ohio, assignor to Roberts & Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1919. Serial No. 318,018. 8 Claims. (Cl. 200—47.)



1. A limit switch for electric hoists comprising a switch element adapted normally to be in operative position, yielding means adapted to move it into inoperative position, a member, pivoted in unstable equilibrium, adapted to resist said yielding means, and means for tripping said member after a predetermined excursion of said hoist.

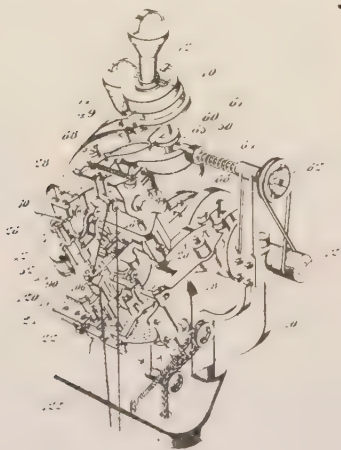
1,423,625. WELL-CLEANING DEVICE. FRANK JASPER ROGERS, Independence, Kans. Filed May 24, 1920. Serial No. 383,619. 8 Claims. (Cl. 166—18.)



1. A well cleaning device comprising a tubular member, a rod connected to the tubular member, a plurality of flexible arms connected to said rod, the free ends of which have a tendency to expand outwardly, a yoke

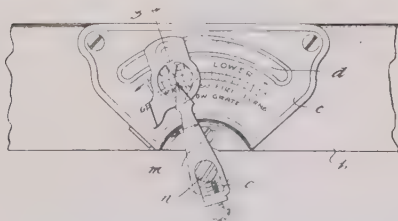
slidable with respect to the tubular member, and means carried by the yoke for engaging the free ends of the flexible arms when the yoke is at the limit of one movement with respect to said tubular member and for releasing the free ends of said arms to permit them to expand when the yoke is at the limit of its movement in an opposite direction.

1,423,626. FASTENER-SETTING MACHINE. WALTER SHAW, deceased, late of Dedham, Mass., by Helen A. Shaw, executrix, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 30, 1918. Serial No. 260,363. 22 Claims. (Cl. 218—15.)



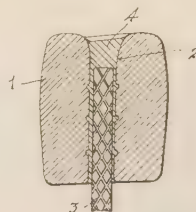
8. In a machine for setting compound fasteners, a member having a tapering hole of fixed dimensions, and two cooperative setting tools one of which is arranged to carry one of the component parts of a compound fastener through said tapering hole to the setting locality, said hole being adapted to correct the position of such fastener part relatively to its carrying tool without materially resisting the advancement of said part.

1,423,627. BURNER REGULATOR. ALVIN G. SHERMAN, Detroit, Mich., assignor to Detroit Vapor Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 27, 1922. Serial No. 539,436. 8 Claims. (Cl. 116—125.)



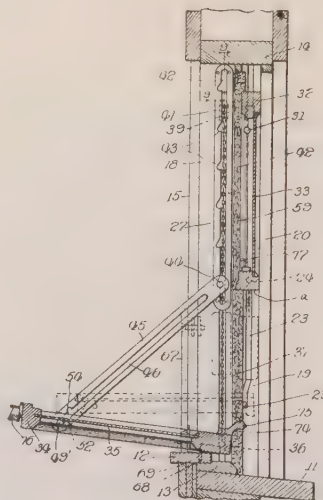
2. In a gas or vapor stove, the combination of a valve regulating the fuel feed, a handle connected with the valve, a pointer arm connected with the handle, a dial provided with indications to show the valve opening, and a slidable arrow fixable along said indications to fix the point of desirable valve opening.

1,423,628. TUBE TOOTH AND CROWN. AMOS H. SIBLEY, Shipbottom, and GEORGE L. VAN ALLEN, Newark, N. J., assignors to General Dental Mfg. Co., a Corporation of New Jersey. Filed Oct. 8, 1921. Serial No. 506,288. 7 Claims. (Cl. 32—30.)



1. A tube tooth or crown having the walls of the opening therein roughened in lines extending circumferentially and longitudinally of said opening.

1,423,629. WINDOW. JOSEPH SIEGFRIED, Lafayette, Ind., assignor of one-fourth to Joseph Held, West Lafayette, Ind., and one-fourth to Christ Held, Lafayette, Ind. Filed May 2, 1919. Serial No. 294,161. 14 Claims. (Cl. 20—42.)

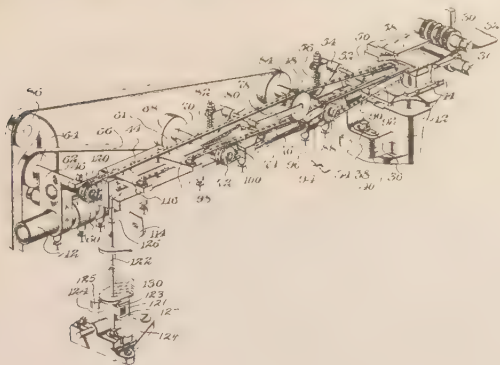


1. In a window structure, the combination of a frame, said frame having vertical channels in its opposite sides, a window sash in said frame, pins extending from the lower corners of said sash into said channels, a pin extending from one side of said sash into the adjacent channel and which pin is above the pin in the adjacent lower corner, a supporting bar slidably engaging at its upper end in said last named channel and at its lower end engaging said upper pin, and means whereby said upper pin may be withdrawn from its channel to release the sash for swinging movement away from the vertical plane, said bar supporting said sash in such position.

1,423,630. BLANK-HANDLING MECHANISM. RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 18, 1918. Serial No. 212,502. 27 Claims. (Cl. 164—22.)

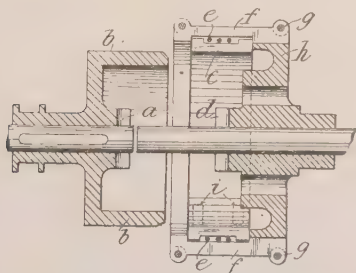
1. In a mechanism for stacking blanks, the combination of a portable, elongated holder member of non-circular cross section constructed and arranged to enter a non-circular aperture in a blank, means for receiving a blank having a non-circular aperture, turning it in its own plane until the longer axis of its aperture becomes parallel to the longer dimension of the cross section of said holder member, conveying it to said member and

stringing it thereon, and means for detachably supporting said member in blank receiving relation to the con-



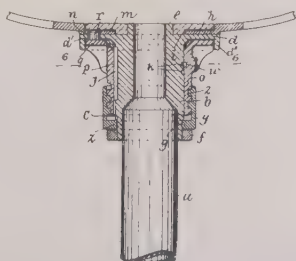
veying means, whereby said member with a stack of blanks strung thereon may be removed and transported without disturbing the relation of the blanks to each other.

1,423,631. DOG CLUTCH. WALTER SKAIFER, London, England. Filed Nov. 13, 1919. Serial No. 337,719. 6 Claims. (Cl. 192-53.)



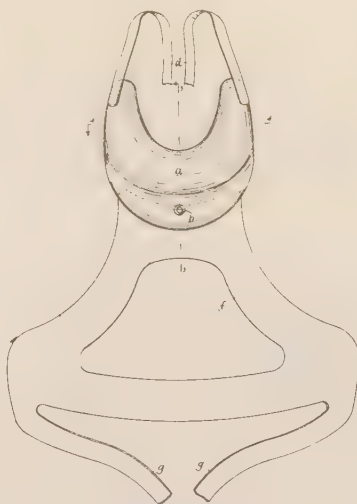
1. A clutch of the type herein referred to, comprising two rotary co-axial members provided with companion dog members one of which is adapted to be moved axially into the other, an annular friction clutch member comprising a plurality of segments carried by and adapted to rotate with one of said co-axial members and to act frictionally against the other co-axial member when one of such members is forced into the other and spring means holding said segments together.

1,423,632. STEERING-WHEEL LOCK FOR VEHICLES. HENRY LUND SMITH, Paterson, N. J. Filed Sept. 21, 1920. Serial No. 411,723. 2 Claims. (Cl. 70-129.)



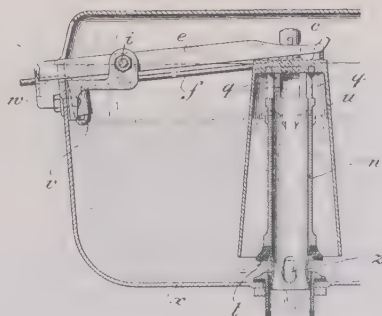
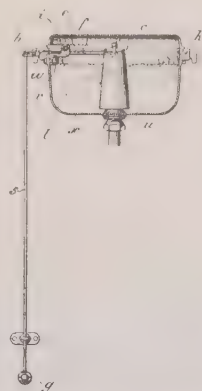
1. In combination, a vehicle steering-post member having a lateral bearing flange, a steering wheel revolubly seated on the flange, a clutch member having a clutching portion forming a spline-connection with the flange and being movable up and down on said steering-post member into and out of locking engagement with the wheel, and means to hold the clutch member in its elevated position.

1,423,633. SWIMMING HARNESS. HENRY LUND SMITH, Paterson, N. J. Filed June 7, 1921. Serial No. 475,655. 1 Claim. (Cl. 9-17.)



Swimming harness including an elongated member tapered toward both ends and having its mid-portion flattened and adapted to bear flat against the wearer's throat and up against his lower jaw and girdling means attached to said ends of the member and also to the lowest part of its said mid-portion and adapted to extend around the wearer to hold said member flat against his throat.

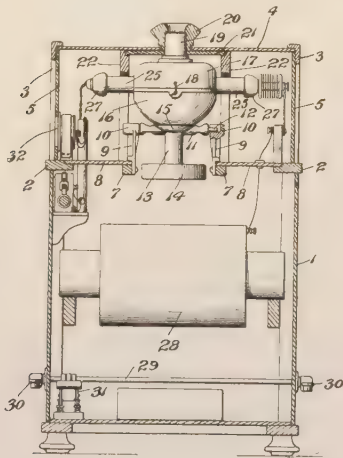
1,423,634. FLUSHING APPARATUS. LEO SOLHEID, Dusseldorf, Germany. Filed Feb. 3, 1922. Serial No. 533,883. 4 Claims. (Cl. 4-5.)



1. In a flushing apparatus of the character set forth, in combination with a siphon bell including a central stand-

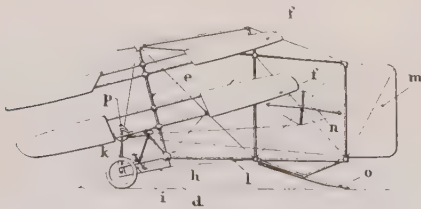
pipe presenting top and bottom ports, and means for operating said siphon bell, an aerating device for at will preventing air rarefaction within said siphon bell, and said aerating device adapted to be operated by a movement of said siphon bell operating means different from that for operating said siphon bell.

1,423,635. X-RAY CABINET AND MACHINE. WILLIAM H. THWAITES, Grand Rapids, Mich. Filed Jan. 3, 1921. Serial No. 434,448. 9 Claims. (Cl. 250—34.)



1. In combination, a cabinet having a horizontally located cylindrical upper portion formed with a transverse slot between its ends, a tube holding housing mounted to turn about a horizontal axis within said upper portion of the cabinet, said housing having a neck projecting therefrom through said slot, and an X-ray tube mounted horizontally within the housing.

1,423,636. FLYING MACHINE. TRAJAN VUIA, Garches, France, assignor to Caius Brediceanu, Paris, France. Filed Oct. 19, 1920. Serial No. 417,943. 2 Claims. (Cl. (Cl. 244—19.)

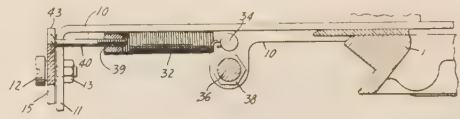


1. A flying machine, comprising a framework, a pair of shafts at the opposite ends of said framework, said shafts being slightly inclined forwardly with respect to the vertical, means for rotating said shafts in opposite directions, and a plurality of blades mounted on each of said shafts, the blades on each shaft having different angles of incidence, and said blades constituting the sole means of propelling and sustaining the flying machine.

1,423,637. CALCULATING MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed June 9, 1921. Serial No. 476,198. 12 Claims. (Cl. 235—59.)

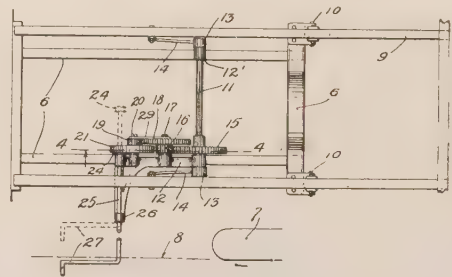
2 The combination of a totalizer truck having individ-

ual freedom in its runway and a tendency to move forward from its normal position when carrying totalizers, a type-



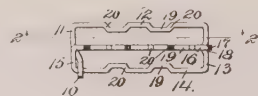
writer carriage, and an intervening adjustable connection for opposing the tendency of the truck to move forward.

1,423,638. MECHANICAL HOIST. FRANK E. ACKERMAN, St. Paul, Minn. Filed Aug. 25, 1921. Serial No. 495,191. 10 Claims. (Cl. 298—19.)



1. The combination with a vehicle having a dumping body, of a crank-shaft mounted on the vehicle and connected to the dumping body, and common means for operating the crank shaft to raise or lower the dumping body and for positively locking the same in a raised position.

1,423,639. SLIDE FOR THE STRAPS OF GARMENTS. CARL E. ANDERSON, East Orange, N. J., assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Filed Aug. 3, 1921. Serial No. 489,455. 3 Claims. (Cl. 24—200.)

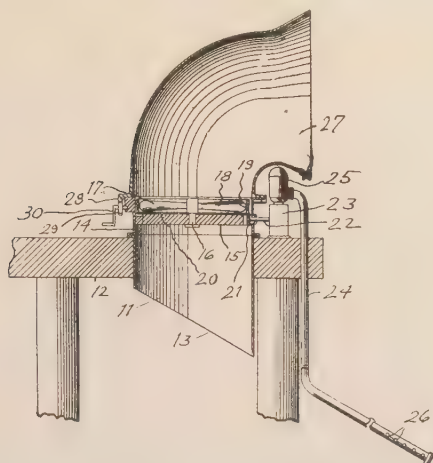


1. A slide for the straps of garments comprising a square wire forming an end strand, a top strand, a second end strand, a bottom strand which extends back to the point of beginning and around which the first mentioned end of the wire is wound, a strand extending upward and then transversely across between the top and bottom strands to form a central strand, at least one of said strands other than the end strands having separated portions thereof offset at right angles to the plane of the slide, said off-set portions being substantially parallel to the portions from which they are off-set and joined thereto by angular shoulders.

1,423,640. AUTOMATIC SURF-BREAKING APPARATUS. HERNDON O. BARLOW, Los Angeles, Calif. Filed May 5, 1921. Serial No. 466,890. 4 Claims. (Cl. 61—6.)

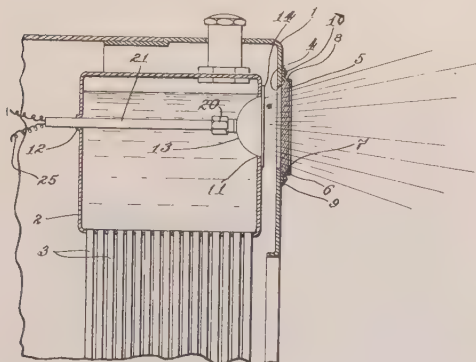
1. In a surf-breaking apparatus, the combination with an air compressor, of a delivery tube extending therefrom and beneath the water and having a series of discharge apertures, a tubular base member mounted on the wharf and having an open end beneath the wharf, a tubular sec-

tion on the base member, a transverse brace in the tubular section, a wind-wheel journaled in the brace member,



a funnel to direct the wind to the wind-wheel, a countershaft to drive the air compressor, and a pinion on the countershaft in engagement with the wind-wheel.

1,423,641. ILLUMINATED MARKER. EDWARD H. BAUSMAN, Baltimore, Md. Filed Dec. 24, 1921. Serial No. 524,648. 3 Claims. (Cl. 40—132.)

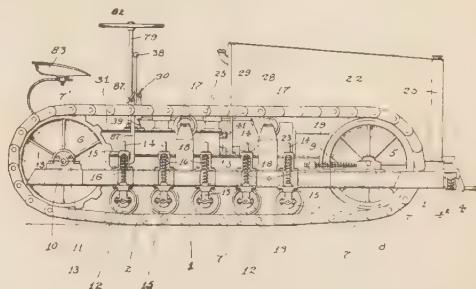


2. In combination with an automobile radiator having a shell and a tank, a cup in the front of the tank having a lamp socket, a lamp bulb therein, a conduit leading to the socket, and a transparent plate having a legend thereon seated in the shell in front of the cup.

1,423,642. TRACTOR DRIVING AND MECHANISM THEREFOR. CARROLL N. BEAL and FAY C. BEAL, San Francisco, Calif. Filed Mar. 8, 1920. Serial No. 364,173. 4 Claims. (Cl. 180—9.2.)

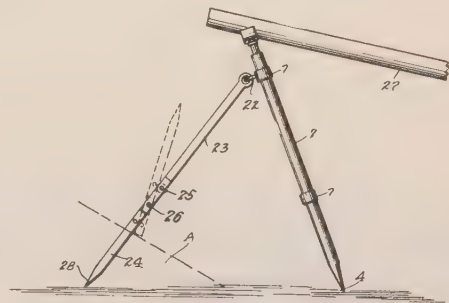
1. A tractor including a frame, supporting and drive members carried thereby and arranged at opposite sides of said tractor, a power plant including a motor, a drive shaft associated therewith, a main clutch connecting the motor and drive shaft, a pair of independent variable speed power transmissions driven by said drive shaft through said main clutch, a driving connection between said power transmissions and the driven members at opposite sides of the tractor, a secondary clutch in each of

said driving connections, a lever associated with each clutch, said levers arranged with their free ends overlap-



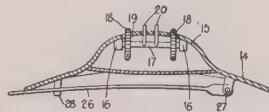
ping, and a single control member associated with said levers and capable of operation to selectively release said secondary clutch.

1,423,643. CHUTE SUPPORT. GEORGE BUCHAN, Sr., Mansfield, Ohio. Filed July 18, 1921. Serial No. 485,560. 2 Claims. (Cl. 248—2.)



1. In a coal chute support, tubular standards connected in spaced and parallel relation to each other, bars telescopically fitted within the tubular standards, a member connected to the telescopic members, a member pivoted to the connecting member to swing in a horizontal plane, cross braces connecting the standards in parallel relation, vertical bearings fitted to said braces, a bar attached to the cross connecting member and slidably fitted in said bearings.

1,423,644. HAIR SLIDE. OLGA EMILY BULEY, London, England. Filed Aug. 16, 1920. Serial No. 403,833. 9 Claims. (Cl. 132—22.)

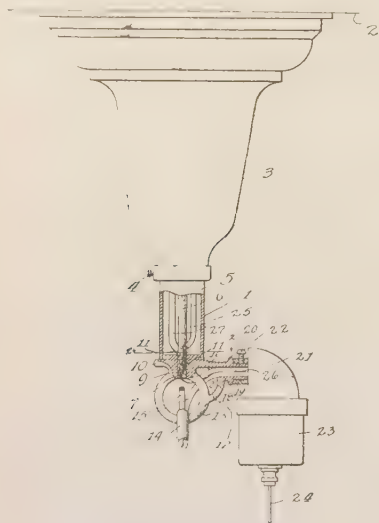


1. A combined hair slide and veil holder comprising a body portion, having means for securing the same to the hair, and at least one member adapted to be protruded from or retracted into the body portion and serving to secure the veil thereto.

1,423,645. SWITCH-SUPPORTING ATTACHMENT FOR ELECTRIC FIXTURES. FRANK LOWELL BUTLER, Chicago, Ill. Filed Apr. 25, 1921. Serial No. 464,090. 2 Claims. (Cl. 240—123.)

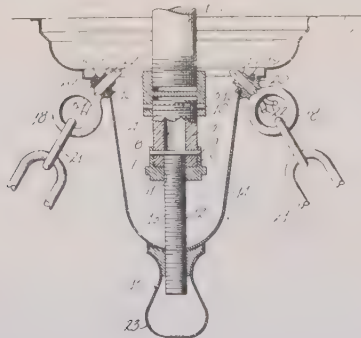
1. In an electric fixture, a stem comprising a vertically disposed rod supported at its upper end and threaded at its lower end, a tubular member arranged to encircle the rod, and means engaging with the rod at the lower end

thereof and contacting with the tubular member at its lower end for supporting the latter, said means comprising a flanged body portion provided with a threaded opening arranged to engage the threaded rod and formed with a lateral extension adapted for connection with a switch and with a loop portion adapted for connection



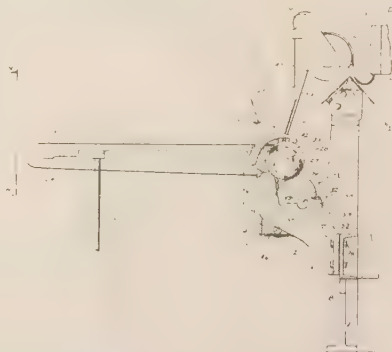
with means for supporting an element to depend therefrom, said body portion being formed with an opening therethrough adapted to guide an electrical conducting wire into the tubular member, and said lateral extension being formed with a bore for guiding an electrical conducting wire into the switch.

1,423,646. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Original application filed Nov. 12, 1920, Serial No. 423,636. Divided and this application filed Sept. 2, 1921. Serial No. 498,125. 1 Claim. (Cl. 240—85.)



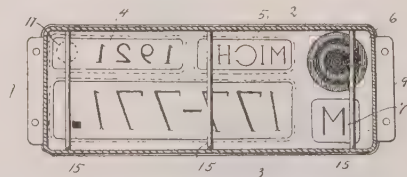
In an electric fixture, a coupling adapted to be secured to a fixed support, an exteriorly threaded insulating tubular member screwed into said coupling, a pin projected transversely through said coupling and tube, a cap having an interiorly threaded cylindrical portion adapted to receive the free end of said tube, a second pin projected transversely through said cap and said tube, whereby said cap and said coupling will turn as a unit, said cap having a threaded bore therein, and a threaded canopy supporting rod screwed into said bore, said rod being adapted to abut said second named pin.

1,423,647. DELIVERY MECHANISM FOR SIGNATURE-STITCHING MACHINES. MARTIN CHRISTENSEN, Racine, Wis., assignor to Christensen Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed June 3, 1920. Serial No. 386,236. 4 Claims. (Cl. 271—87.)



1. In apparatus of the class described, the combination of a frame including a horizontally extending portion having its inner end position adjacent the discharge end of a stitching machine or the like, rollers journaled in the inner and outer ends of said horizontal frame portion, a belt on said rollers, a shaft journaled in said frame, a feed finger mounted on said shaft, a bell crank fixed on said shaft, a drive shaft, a cam on said drive shaft, means to maintain one arm of said bell crank in operative engagement with said cam, a ratchet associated with one of said rollers, and a pawl carried by the other arm of said bell crank and adapted to engage said ratchet, whereby said belt is intermittently advanced and said feed finger is simultaneously oscillated, for the purpose specified.

1,423,648. TAIL LIGHT AND NUMBER PLATE. RALPH S. CROSHAW, Grand Rapids, Mich. Filed Feb. 28, 1921. Serial No. 448,393. 2 Claims. (Cl. 40—133.)

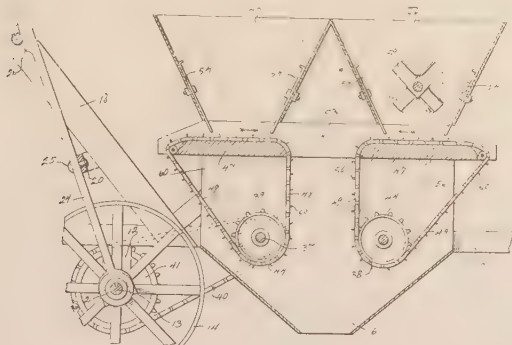


1. In combination with a combined tail light and license number signal, an enclosing case having a curved reflecting back wall, an electric light bulb mounted within the case, a removable front plate mounted upon the case and having symbol openings therethrough, several detachable signal panels having symbol openings formed therethrough, said detachable panels connected with, and illuminated through the front plate, and readily detachable therefrom.

1,423,649. FERTILIZER DISTRIBUTER. DAVID C. DANIEL, Apex, N. C., assignor of one-half to Sylvester Brown Shepherd, Raleigh, N. C. Filed June 26, 1920. Serial No. 392,028. 1 Claim. (Cl. 198—52.)

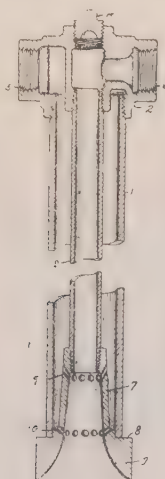
A fertilizer distributor comprising a portable frame, aligned hoppers supported therein, said hoppers having common sides formed with parallel lower ends forming a common guide channel, guide members spaced apart longitudinally in said channel and transversely filling the same, a guide roller at the outer end of each guide member, conveyor chains operating over the guide members

and rollers, a discharge chute common to both hoppers and having its discharge opening vertically aligned with the space intermediate the adjacent ends of said guide members, spaced shafts journaled in the frame and extending across the chute, gears connecting the shafts,



sprockets on said shafts engaged with the chains and means for driving one of said shafts, said conveyor chains operating in opposite directions whereby the fertilizer from the hoppers is mixed before being discharged from the chute.

1,423,650. OIL BURNER. JOSEPH O. DECUIR, Houston, Tex. Filed May 11, 1920. Serial No. 380,623. 1 Claim. (Cl. 158—75.)

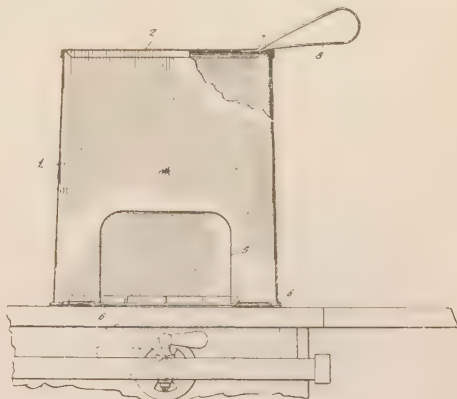


An oil burner including a tubular casing, a T-connection to which the same is anchored, a fuel pipe arranged concentrically therein and spaced therefrom forming a chamber, said fuel pipe being anchored to said connection, means for admitting fuel into said pipe, means for admitting steam into said chamber, a nozzle, formed with a bell-shaped discharge passageway and fitted within the discharge end of the casing formed with an annular shoulder which abuts against the adjacent end of the casing, forming a tight joint therewith, an elongated nipple formed integrally with said nozzle and anchored to said fuel pipe, said nozzle and nipple each having a circular row of ports through which steam may be discharged from said chamber through said nozzle.

1,423,651. HEATING DRUM. CHARLES A. DE JACO, Newport, Ky. Filed Apr. 12, 1921. Serial No. 460,843. 2 Claims. (Cl. 126—85.)

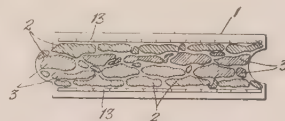
1. A heating drum comprising a rectangular sheet metal structure adapted to be applied in an inverted position

over a gas stove burner, provided with a flat top and opposing side walls tapering toward each other from



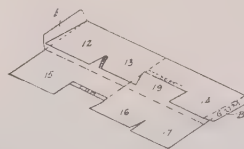
the base, and one wall thereof having an opening there-through at the lower portion from the base edge.

1,423,652. PLATE FOR RESISTING FLAME AND CUTTING TOOLS. RALPH S. EDMONDSON, Elizabeth, N. J., assignor to American Abrasive Metals Company, a Corporation of New York. Filed Aug. 18, 1921. Serial No. 493,268. 8 Claims. (Cl. 109—1.)



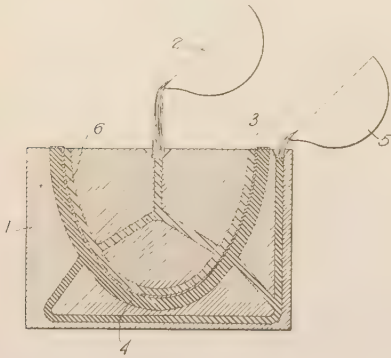
1. As an article of manufacture a slab or plate for use where combined powers of resistance to heat and cutting tools are required, which slab or plate is composed of a cast metal matrix in which is embedded a layer of particles of fused magnesia, and a layer of particles of fused aluminum oxide.

1,423,653. ENVELOPE. HENRY J. EICKOFF, Hamilton, Ontario, Canada. Filed May 13, 1922. Serial No. 560,759. 3 Claims. (Cl. 229—68.)



1. In a device of the class described, a rectangular blank having a plurality of opposed transverse cuts extending from the opposed longitudinal edges thereof and constituting flaps which when said blank is folded on longitudinal lines are adapted to interlock in staggered relation and gummed to contacting surfaces, said blank having tongues on opposite ends, the body subsequently to being longitudinally folded being folded on a central transverse line, one of said tongues being folded over the edge of an adjacent section and gummed to the opposite side thereof forming a correspondence pocket, the other tongue being folded over the latter tongue and inserted between an outer section of the body and an adjacent inner section thereof, and sealing wax fused between said tongue and said adjacent inner section.

- 1,423,654. CASTING PROCESS. GODFREY ENGEL, Sr., Brooklyn, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a Corporation of New York. Filed Nov. 2, 1920. Serial No. 421,241. 1 Claim. (Cl. 22—201.)



The herein disclosed process of casting a containing vessel which comprises casting a relatively thick outer layer of the external shape of the vessel and subsequently casting a thinner inner layer of the internal shape of the vessel within the thicker outer layer and permitting the inner thinner layer to cool before the outer thicker layer so as to cause the latter to shrink onto the former.

- 1,423,655. PRICE-TAG HOLDER. LOUIS E. ERICSON, San Diego, Calif., assignor to W. S. Rench, San Diego, Calif. Filed Oct. 24, 1921. Serial No. 509,877. 3 Claims. (Cl. 40—11.)

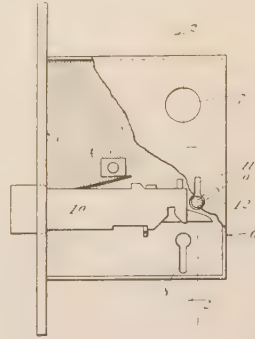


3. A price tag holder, comprising a clamp formed of spring wire with a forward and a rear leg so that said legs engage a support, and a coil joining the legs, a strap mounted on the coil of said clamp and frictionally engaging the coil so that it may be adjusted in the vertical plane and remain set, said strap being formed with a detent hole or lug and a pivot, and a tag holding plate formed with detent holes or lugs corresponding with the detent hole or lug of said strap and mounted on the pivot of said strap so that it may be turned thereon for lateral angular adjustment.

- 1,423,656. LOCK. ANDREW J. FALLON, Chicago, Ill. Filed Feb. 1, 1917. Serial No. 145,836. 3 Claims. (Cl. 70—14.)

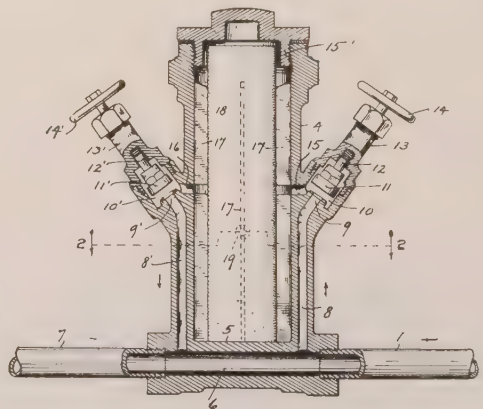
2. A latch bolt and a casing, the outer and inner sides of which casing are each provided with a key-hole located

in parallel planes and in directly reversed positions and adapted for one and the same key for locking and un-



locking the bolt from the outside and for securing the bolt in its locked position from the inside by the direct contact of the key therewith.

- 1,423,657. WATER SOFTENER. CHARLES B. HAINES, Indianapolis, Ind. Filed Aug. 10, 1921. Serial No. 491,250. 3 Claims. (Cl. 210—36.)



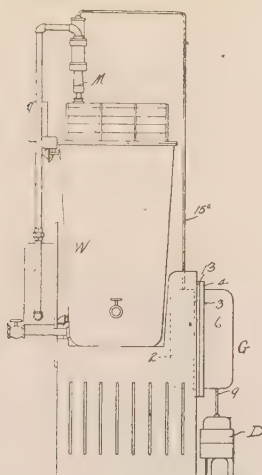
3. The combination with a water supply pipe, of a receptacle containing a substance in stick form to be acted on by flowing water, longitudinal ribs on the inner wall of the receptacle to space the stick from the said walls, a water passage from the supply pipe to a space in the receptacle, another water passage from another space in the receptacle to the water supply pipe, and valve means in each of said water passages to control the flow of water therethrough.

- 1,423,658. OZONE GENERATOR. HARRY BUXTON HARTMAN, Scottdale, Pa., assignor to Electric Water Sterilizer and Ozone Company, Scottdale, Pa., a Corporation of Pennsylvania. Filed Jan. 24, 1920. Serial No. 353,858. 8 Claims. (Cl. 204—32.)

1. An ozone generator comprising a casing consisting of relatively separable sections provided with vertically disposed radial ribs and centrally arranged chamber-forming members, a generating unit consisting of spaced dielectric members and an intermediate electrode arranged

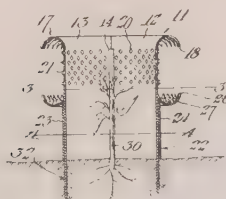
between said sections and the dielectrics being provided with openings, and a terminal plug arranged in one of

ing mechanism, and a detachable link adjustable in length for connecting said mechanisms to operate the



the chambers and electrically connecting with the electrode of the generating unit at the central portion thereof.

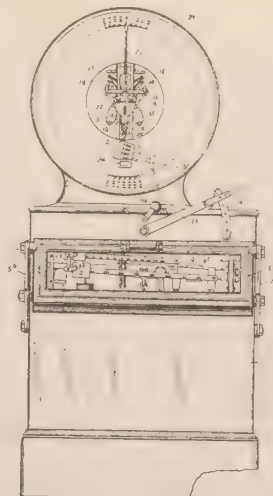
1,423,659. PLANT PROTECTOR. NELS H. HASSEL, Los Angeles, Calif. Filed May 31, 1921. Serial No. 473,588. 4 Claims. (Cl. 47—39.)



1. A plant protector comprising a circular casing open at each end, said casing being formed of two parts slidably connected; an outwardly and downwardly extending circular flange on the upper end of said casing; a series of teeth formed on the edge of said flange; a series of spurs formed on said casing under said flange; a circular sleeve on said casing formed of two parts slidably connected; an annular cup formed on the upper end of said sleeve; and a series of teeth formed in the edge of said cup.

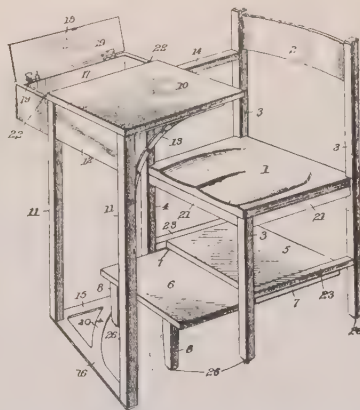
1,423,660. WEIGHING SCALE. HALVOR O. HEM, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed May 10, 1916. Serial No. 96,511. 39 Claims. (Cl. 265—62.)

1. In a scale, beam scale mechanism, pendulum weigh-



pendulum mechanism from the beam mechanism when desired.

1,423,661. DESK AND CHAIR. OLIVE GRACE HENDERSON, Detroit, Mich. Filed Dec. 1, 1921. Serial No. 519,185. 2 Claims. (Cl. 155—128.)

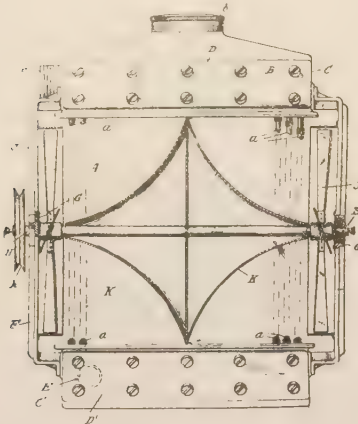


1. The combination with a chair, of a desk arranged in front of the same, one of the front legs of the chair being extended upwardly to support one of the adjacent corners of the desk, supporting means reaching to the floor from both of the remote corners of the desk, and a substantially L-shaped brace to extend along the floor and connect the bottom of said supporting means with the lower end of the leg having said upward extension.

1,423,662. RADIATOR FOR VEHICLES. EDWARD R. HEWITT, Midvale, N. J. Filed Apr. 10, 1919. Serial No. 288,906. 8 Claims. (Cl. 257—126.)

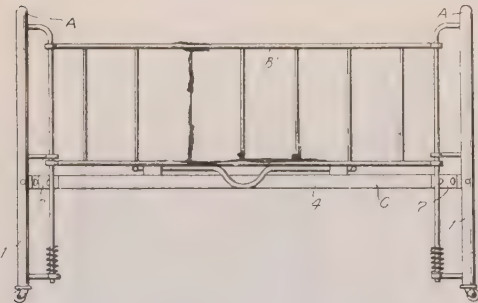
1. In a power vehicle, an engine cooling apparatus comprising two radiating sections laterally disposed, a medial

fan shaft and two oppositely pitched fans on said shaft, a stationary deflector intermediate said fans cooperating



with said radiating sections whereby either fan propels air to be deflected by the stationary deflector to the radiating section.

1,423,663. CRIB. ALEXANDER IZEN, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed July 15, 1921. Serial No. 484,965. 1 Claim. (Cl. 5—58.)

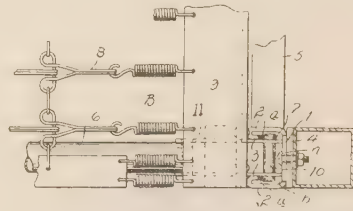


In combination with a bed having end members provided with posts, pins projecting inwardly from said posts, a bed-bottom having corner-pieces projecting outwardly therefrom at an angle of substantially forty-five degrees, said corner-pieces comprising two metallic members bent substantially L-shaped, the legs of each L being connected by a neck, said L-shaped members being secured together at their necks so as to provide oppositely disposed forks, one of said forks engaging the corner of the bed-bottom and secured thereto, the other being adapted to embrace a bed-post, and one side of the last mentioned fork being provided with an inclined slot for receiving one of the aforesaid pins for supporting the bed-bottom.

1,423,664. BED CORNER. ALEXANDER IZEN, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 24, 1921. Serial No. 502,877. 2 Claims. (Cl. 5—55.)

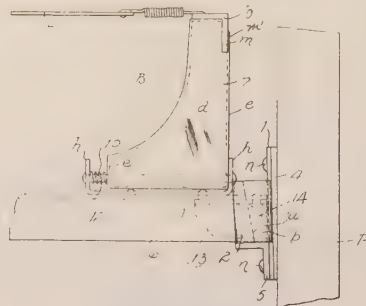
1. In combination with a bed-post and side rail adapted to be secured thereto, a plate secured to the post and inclined thereto, said plate being provided with a

pair of inwardly projecting arms having oppositely disposed downwardly inclined surfaces in opposing relation



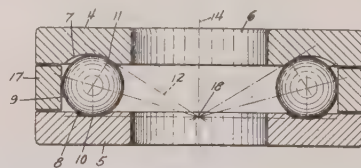
to the plate, and a bracket on the side rail adapted to be wedged between said surfaces.

1,423,665. BED CORNER. ALEXANDER IZEN, St. Louis, Mo., assignor to Smith & Davis Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 24, 1921. Serial No. 502,878. 2 Claims. (Cl. 5—63.)



1. In combination with a bedstead and bed-bottom adapted to be secured thereto, said bed-bottom being provided with side-rails and end rails, a bracket pivotally mounted on each end of a side rail and capable of longitudinal movement relative to the side rail, said bracket having a slotted connection with one end of an end rail, and means for securing the bracket to a bed-post.

1,423,666. BALL BEARING. LOUIS LANGHAAR, Cincinnati, Ohio. Filed June 26, 1920. Serial No. 391,938. 4 Claims. (Cl. 64—49.)

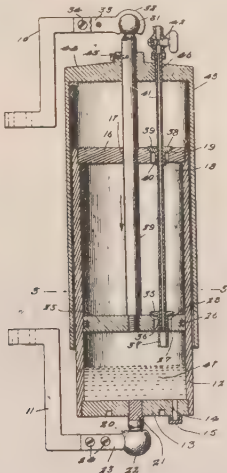


4. A ball thrust bearing comprising a row of balls, two opposed ball races each having a single spot of contact with each ball and at least one of said races having a ball track of curved cross section, and means for restraining the balls to travel on said races with their axes and the common tangents to said balls and races converging towards a point in the axis of the bearing at one side of a plane passing diametrically through the balls on opposite sides of said axis of the bearing.

1,423,667. SHOCK ABSORBER. EMMETT SYLVESTER LEHR, Salt Creek, Wyo. Filed Nov. 18, 1920. Serial No. 424,926. 7 Claims. (Cl. 188—88.)

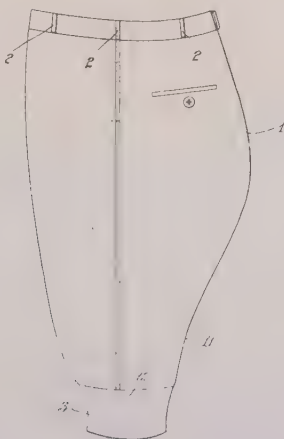
1. In a shock absorber of the character described, a bracket adapted to be secured to the vehicle body, a bracket adapted to be secured to the axle or the like, a cylinder having a lower cylinder head and an upper cylinder head provided with a piston rod opening and with

another opening having a valve seat, means for universally connecting said cylinder to said axle bracket, a piston reciprocable in said cylinder and having an opening therethrough provided with a valve seat, a piston rod for the piston, means for universally connecting the piston rod to the vehicle body bracket, a pressure operated valve cooperable with the valve seat of the piston and provided with an opening and having an elongated tubular valve stem adapted to coact with the lower head of the cylinder to positively operate said valve, a second pressure operated valve cooperable with the valve seat of the upper cylinder head and having an opening therethrough and a tubular valve stem, a stand pipe extending through the openings of said valves and their tubular valve stems to the atmosphere, a hand-cock controlling said stand pipe, and a cylindrical casing having a closed end secured to the piston rod at its upper end slidably enclosing said cylinder.



7. In a shock absorber of the character described, a cylinder, a piston reciprocable in said cylinder and having an opening therethrough provided with a valve seat, a pressure operated valve cooperable with the valve seat, a stand pipe extending through said pressure operated valve, and means for controlling communication of said stand pipe with the atmosphere.

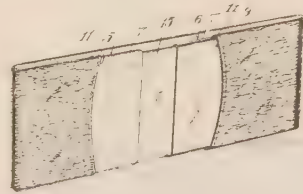
1,423,668. KNICKERS. PHILIP LEIKEN, Brooklyn, N. Y., assignor to Peerless Smoking Jacket Company, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1921. Serial No. 509,393. 1 Claim. (Cl. 2—122.)



As an article of outer wearing apparel, a knickerbocker of woven material, each leg thereof being provided with

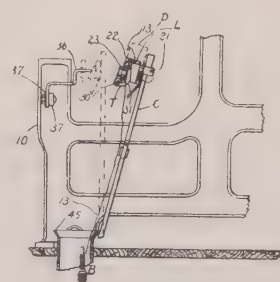
a cuff extending substantially below said leg and comprising a continuous length of elastic tubular knitted material doubled back upon itself to form a folded edge, the two ends being permanently secured to the said leg.

1,423,669. BILL FOLD. CHARLES L'ENFANT, New York, N. Y. Filed Aug. 20, 1921. Serial No. 493,779. 7 Claims. (Cl. 150—38.)



1. A bill fold comprising body walls, one of said walls consisting of two sections disposed in alignment and having their inner opposed ends spaced apart and means permanently connecting the opposed ends of said wall sections to each other and foldable upon itself when said wall sections are moved into parallel relation to each other, said connecting means during the folding thereof permitting of the relative longitudinal movement of said wall sections toward and from each other with respect to said connecting means.

1,423,670. BOBBIN STRIPPER FOR AUTOMATIC LOOMS. JAMES T. MALLOY, Lowell, Mass., assignor, by direct and mesne assignments, of one-half to John J. Henderson, Dracut, Mass., and one-half to Samuel R. Haines, Brookline, Mass. Filed Mar. 13, 1920. Serial No. 365,516. 8 Claims. (Cl. 139—85.)

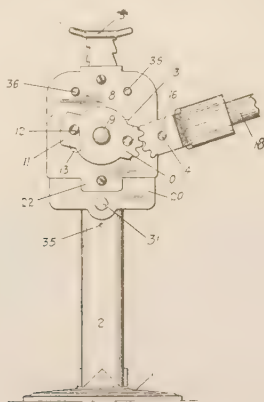


1. The combination with a weft replenishing loom having a frame, a breast beam, and a lay beam with a bobbin passage, of a trap comprising side bars pivoted to the lay beam and a cross bar connecting them, leaving a bobbin passage between, such cross bar and part of the side bars being located in the lay beam bobbin passage, a spring adapted to keep the trap normally closed, and a dagger attached to the frame in such position that it will so engage the trap as to open it during part of the period of the lay beam's movement to and from the breast beam.

1,423,671. QUICK-ACTION DOUBLE-GEAR JACK. ALEXANDER W. MARR, Canton, Ohio. Filed Oct. 8, 1920. Serial No. 415,620. 12 Claims. (Cl. 254—109.)

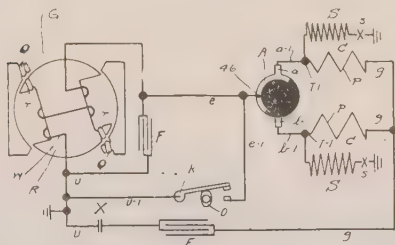
1. In a jack, the combination with a tubular standard, of a lifting bar therein having ratchet teeth on two opposite sides, the teeth on one side of said bar being disposed in zig-zag relation to the teeth on the other side of said bar, lifting elements for alternately engaging the

teeth on said bar, and reduction gear means for imparting an alternate up and down movement to said lifting



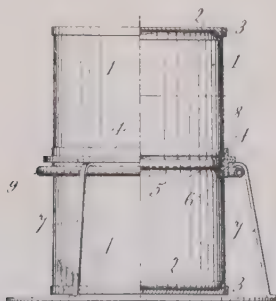
elements to raise the lifting bar, said reduction gear means and the zigzag disposed teeth on the lifting bar co-operating to lift a heavy load.

1,423,672. MAGNETO-IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JOHN LEWIS MILTON, Cleveland, Ohio, assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 18, 1913, Serial No. 749,173. Renewed Dec. 16, 1920. Serial No. 431,096. 9 Claims. (Cl. 123—148.)



1. In an ignition generator, the combination with opposite field magnet poles and an armature operatively mounted between the poles, of a cover plate fitting between the said poles, a condenser and a spark gap structure, the said cover plate, condenser and spark gap structure forming a self-contained unit adapted to be assembled before the cover plate is mounted in the generator.

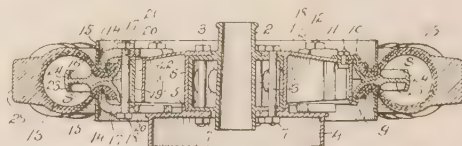
1,423,673. METAL CASK, DRUM, OR THE LIKE. SIDNEY CLARK MOUNT, Southall, England. Filed May 9, 1921. Serial No. 468,065. 4 Claims. (Cl. 220—8.)



4. A metal cask comprising separable parts, internal jointing means therefor containing a medium having a

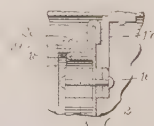
relatively low melting point and external mechanical jointing means adjacent to the internal jointing means said external means being adapted to be supported by a tripod having a Bunsen ring by which heat can be applied externally to the barrel to melt the medium of the internal jointing means in order to make and break the same, substantially as described.

1,423,674. VEHICLE WHEEL. SWENEY MUNSON, Fowler, Colo. Filed Oct. 17, 1921. Serial No. 508,328. 9 Claims. (Cl. 152—10.)



1. In a vehicle wheel, a rim having an annular peripheral tire bearing surface, an inflatable tire having a longitudinally divided inner periphery and into which the rim extends, the tire when inflated being out of contact with said surface, and when deflated, being arranged to bear against said surface, two clamping rings which respectively press opposite sides of the tire against opposite sides of the rim, each of said rings having a relatively wide laterally extending horizontal annular portion against which the deflated tire is adapted to bear, and means for clamping said clamping rings against the tire and against said rim, substantially as set forth.

1,423,675. GEAR HOUSING. JOSEPH A. NEATHAMMER, Alhambra, Ill. Filed June 11, 1921. Serial No. 476,933. 1 Claim. (Cl. 74—7.)

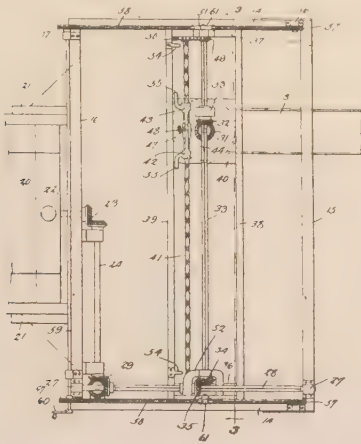


A gear housing for use with a train of gears wherein one of the gears is fixed on a driven member for rotating the same, said housing comprising a stationary disc and a rotatable disc arranged axially and disposed in substantially parallel spaced relation, the opposed faces of said discs having interfitting annular flanges arranged to form a peripheral wall for said housing, said rotatable disc being adapted to be fixed to rotate with said driven member, and an arcuate guard rigidly mounted on the upper part of said stationary disc, said guard being formed to have interfitting engagement with the rim of said rotatable disc.

1,423,676. MANURE LOADER. ROMIE J. NEWCOMB, Baltimore, Md. Filed Apr. 19, 1921. Serial No. 462,630. 6 Claims. (Cl. 37—27.)

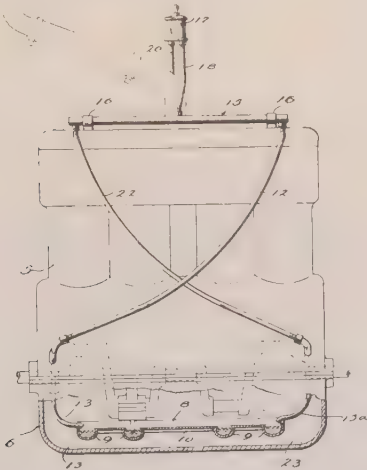
1. An apparatus for gathering and conveying material, comprising a supporting frame, movable gathering and conveying elements connected to travel together, a support for said elements, rails slidably supporting said support and arranged transversely of the supporting frame, supporting means for the rails carried by the supporting frame and movable in the direction of the length thereof, operating means for the supporting means,

a feed screw carried by the supporting means and having reversely arranged threads, feed nuts carried by the aforesaid support and alternately engageable with the



respective threads of the feed screw, operating means for the feed-screw, and means for operating the gathering and conveying elements.

1,423,677. INTERNAL-COMBUSTION ENGINE. ALBERT E. NICHOLLS, Wilson Creek, Wash. Filed May 17, 1921. Serial No. 470,346. 5 Claims. (Cl. 184—13.)



1. The combination with an internal combustion engine having a crank case, of a horizontally arranged longitudinally extending manifold secured to the upper portion of the engine and extending for the major portion of the length of the engine, oil distributing pipes having their upper terminal portions extended into the terminal portions of said manifold and terminating above the lower wall of the interior of the manifold thereby providing an oil reserved space extending for the entire length of the manifold, said oil distributing pipes being crossed and having their lower terminal portions connected to said crank case.

1,423,678. BROOM HOLDER. JOHN LEE OEFINGER, Denver, Colo. Filed July 9, 1921. Serial No. 483,561. 1 Claim. (Cl. 24—249.)

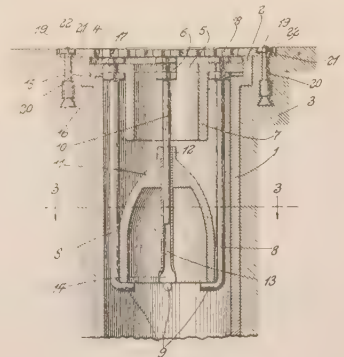
A broom holder consisting of a support which is reversely bent intermediate its ends to form an eye for the support of a ring, one end of said support having a

threaded portion, the other end being coiled about the threaded end just above the threaded portion thereof and



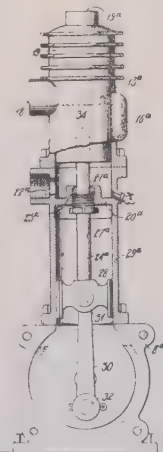
a wire ring having one end of the wire formed into an eyelet connected to the eye of said support.

1,423,679. DRAIN VALVE. STEVE PAVITCHICH, Wood-river, Ill. Filed Feb. 4, 1922. Serial No. 534,124. 3 Claims. (Cl. 182—14.)



1. The combination with a sewer pipe having an internal shoulder near its inlet end, of a tubular member extending downwardly into the sewer pipe, a flange on the upper end of said tubular member seated on the shoulder within the sewer pipe, a web extending across the upper end of said tubular member, a rod extending downwardly through said tubular member beyond the lower end of said member and having its upper end rigid with said web, a cage rigid with said flange and extending downwardly beyond the lower end of said tubular member, a valve element within said cage, and a tube within said valve element and opening through the upper end thereof and receiving the lower end of said rod and permitting said valve element to move upwardly to contact with the lower end of said tubular member.

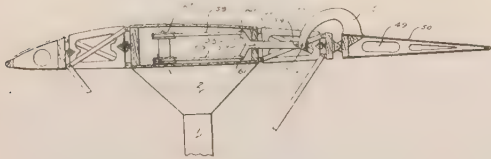
1,423,680. INTERNAL-COMBUSTION ENGINE. FRANK L. H. FREIL, Philadelphia, Pa. Filed Mar. 12, 1920. Serial No. 365,272. 3 Claims. (Cl. 123—74.)



1. The combination with a two-cycle internal combustion engine having a piston rod, cross head, and connect-

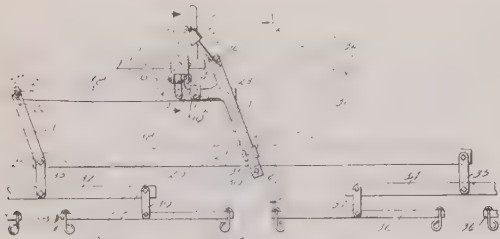
ing rod, of a structure adapted to be interposed between the explosive cylinder and the crank case of said engine, said structure including a hollow cylinder section with a partition located inwardly from one end thereof to provide a space between said end and the partition, said partition having a stuffing box through which the piston rod of the engine can extend for attachment to said cross head, said cylinder section having a guideway for said cross head and located between said partition and the opposite end of said cylinder section whereby the cross head can be connected to the connecting rod leading outward from the crank case, said first end of the cylinder section having a portion for attachment to the explosive cylinder of the engine whereby said space will form a compression chamber for the gas to permit compression of the latter during the movement of the piston in the explosive cylinder, the opposite end of said cylinder section having a portion for attachment to the crank case; substantially as described.

1,423,681. AIRPLANE. GEORGE B. POST, Ogdensburg, N. Y., assignor to Huff, Daland & Company, Inc., Ogdensburg, N. Y., a Corporation of Delaware. Filed Mar. 25, 1921. Serial No. 455,578. 18 Claims. (Cl. 244-12.)



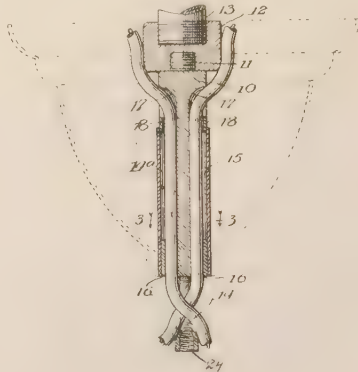
1. In a flying machine, a supporting plane comprising a fixed portion, an adjustable portion, an intermediate portion between the other portions, and adjusting connections including rigid elements extending through the intermediate portion and connecting the first mentioned portions, whereby the depth between the chord and support ing surface may be varied.

1,423,682. FOUR-HORSE EQUALIZER. JOHN ROBSON, Anita, Iowa. Filed May 20, 1921. Serial No. 471,039. 4 Claims. (Cl. 278-8.)



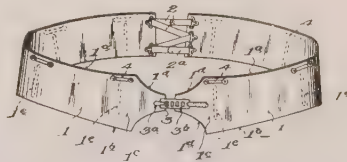
1. A device of the character described comprising a draft bar having a straight body portion adapted to be adjustably connected at one end with a vertical tongue, and an integral lateral extension adapted for connection with the outer end of the vertical tongue, a slide slidably mounted on said draft bar, a draft equalizing frame pivotally mounted on said slide member, and means associated with one end of said equalizing frame and said slide member for moving said slide member back and forward on said draft bar as said draft equalizer is pivoted as in turning the vehicle.

1,423,683. STEM FOR ELECTRIC-LIGHTING FIXTURES. ELIAS ROCKOFF, Chicago, Ill., assignor of one-half to Bernard Rockoff, Chicago, Ill. Filed July 6, 1920. Serial No. 394,206. 7 Claims. (Cl. 240-85.)



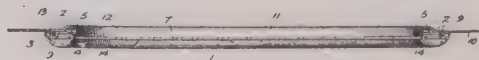
1. A lighting fixture stem, one end of which is provided with means for securing said stem in position, the opposite end having a pair of apertures which are separated by a wall which extends from said end to adjacent the opposite end of the stem, grooves arranged upon the opposite sides of the wall which separates said apertures, the opposite sides of said wall providing one face of each of said grooves, a supporting member projecting from the opposite end of said stem whereby another supporting member may be secured to the stem, said last mentioned supporting member being arranged in substantial alignment with said wall between the apertures provided at the lowermost end of the stem.

1,423,684. TROUSERS SUPPORT. ABEL ROSE, Cleveland, Ohio. Filed Feb. 4, 1921. Serial No. 442,420. 2 Claims. (Cl. 241-9.)



1. In a trousers support, the combination with a pair of trousers provided with a waistband, and a series of attaching devices extending along and detachably connected to the marginal edges of said waistband and provided with depending hooks; of a trousers supporting belt comprising two side sections adapted to be arranged within said waistband and provided on their outer portions with loops adapted to receive the hooks of said fastening devices.

1,423,685. CURTAIN-WINDOW LIGHT. JOHN B. SCHAAF, Cincinnati, Ohio, assignor of one-half to Charles Arbogast, Cincinnati, Ohio. Filed July 9, 1920. Serial No. 394,991. 1 Claim. (Cl. 296-145.)



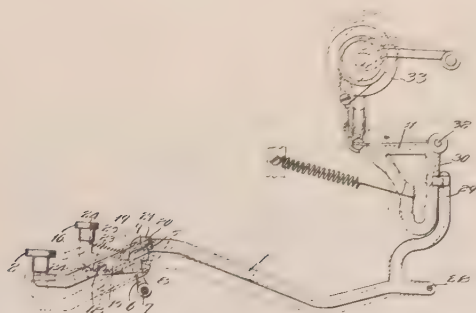
In a device of the class described, a base frame of substantially semi-circular cross section, adapted to surround a curtain opening, means integral therewith for removably fastening a window light therewithin against the concave side of said base frame and against its inner periphery, a clamping frame providing a semi-tubular and a flat clamping portion placed in opposition to the said base frame, the

concurrent peripheral edges of the two frames acting to clamp the said transparent material, and a means integral with the base frame for attaching the same about the opening and for clamping the two frames together.

1,423,686. ELECTROTINNING. LOUIS SCHULTE, Chicago, Ill. Filed July 12, 1920. Serial No. 395,682. 5 Claims. (Cl. 204—17.)

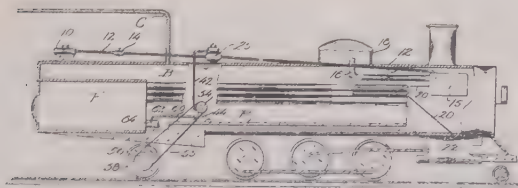
1. The method of making a plating electrolyte comprising the making of a solution of caustic potash in water, adding dilute hydrofluoric acid thereto until an acid reaction is obtained, diluting the resulting solution with water, and dissolving metallic tin in said solution by means of an electric current.

1,423,687. TYPEWRITER ATTACHMENT. JOHN M. SCHULTZ, Chicago, Ill., assignor, by direct and mesne assignments, to John S. Chennecour, Chicago, Ill. Filed July 9, 1919. Serial No. 309,708. 2 Claims. (Cl. 197—89.)



1. In a typewriting machine, a platen shift lever having a pin projecting from one side thereof, a rocking lock lever pivotally mounted on said shift lever having an integral extension projecting at right angles thereto, a finger key connected with said lever, a pivoted latch lever, said right angle extension portion of the lock lever being adapted to normally prevent locking cooperation between said pin and pivoted latch lever, but adapted upon the actuation of said lever to be moved rearwardly from said pin slidably on the upper portion of the latch lever to a position to permit a portion of the latch to ride over and engage said pin, said angle extension of said lock lever directly engaging the upper surface of the latch lever when the same cooperates with the pin to hold the latch lever in locked position.

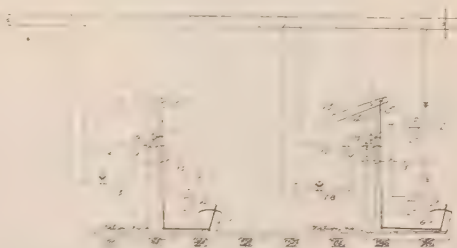
1,423,688. STEAM DRIFTER MECHANISM FOR LOCOMOTIVES. FREDERICK B. SEARLE, Denver, Colo. Filed June 11, 1920. Serial No. 388,252. 2 Claims. (Cl. 121—137.)



1. In a drifter lubricator for locomotives having a live steam conduit adapted to be connected with the cylinders of a locomotive, a pressure controlled valve in said conduit, and a source of compressed air, means operated by a moving part of said locomotive, when the latter is running, for intermittently transferring air from said com-

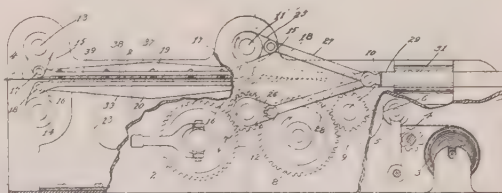
pressed air source to said valve, said means comprising a cylinder, a reciprocating piston therein, a crank and connecting rod for reciprocating said piston, an annular pocket in said piston, an intake and an outlet pipe entering said cylinder and so located that the pocket engages alternately with first one and then the other whereby air is intermittently transferred from the intake pipe to the outlet pipe.

1,423,689. SIGNAL DEVICE FOR RAILWAY TRAIN-ORDER SEMAPHORES. HARRY A. SELIN, Reading, Pa. Filed Jan. 7, 1921. Serial No. 435,614. 1 Claim. (Cl. 246—3.)



In a signal device for railway train order semaphores, a hand actuated semaphore, an electric switch operatively connected with the semaphore, an inside circuit and an outside circuit, both of which are connected with the switch, whereby indications on both circuits may be given simultaneously, and a circuit breaker in the outside circuit, whereby the outside circuit may be deenergized while the inside circuit is left at the indication originally given.

1,423,690. ROTARY PUNCH. JOHN Q. SHERMAN, Dayton, Ohio. Filed Jan. 5, 1920. Serial No. 349,372. 9 Claims. (Cl. 164—90.)



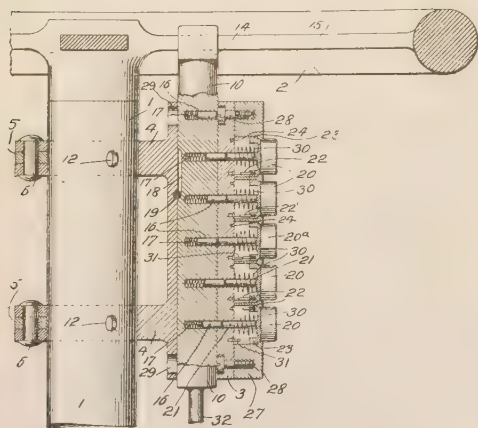
1. In a rotary punch, the combination with operating mechanism, of a single pair of punch bar elements extending lengthwise of a web of paper to be punched, the one bar carrying an extended number of longitudinally arranged punches, and the other bar provided with a similar number of longitudinally arranged matching holes for the punches, and means actuated by the operating mechanism for moving said bars toward and away from each other through a rotary path while maintaining them in parallel with relation to each other and means for controlling the amount of material fed between said bars, whereby the holes shall be punched in spaced series for the several punching operations.

1,423,691. LOCK FOR AUTOMOBILES. JACOB SOKOLOV, Detroit, Mich., assignor to Defiance Combination Auto Lock Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 27, 1920. Serial No. 369,435. 11 Claims. (Cl. 70—54.)

1. In a lock, the combination with a bolt provided with a spring pressed tumbler, of a depressible key provided with a stem adapted to cooperate with said tumbler to release the bolt, said key being rotatable about its stem to

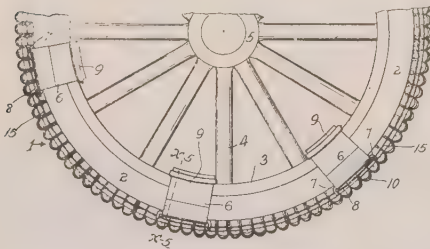
a predetermined angular position for releasing said bolt when depressed, cooperating members adapted for limiting the depression of the key, and means for adjusting the rela-

the pail body while the pail body is in said predetermined position and maintain said contact until the ears are attached to said body, and means for producing relative



tion between said cooperating members, whereby the angular position of the key when depressed for releasing said bolt may be varied.

1,423,692. TIRE PROTECTOR. GEORGE W. SOMMERVILLE, Wilmington, Calif., assignor of one-half to Towal Nelson, Lebec, Calif. Filed July 14, 1920. Serial No. 396,080. 15 Claims. (Cl. 152—16.)

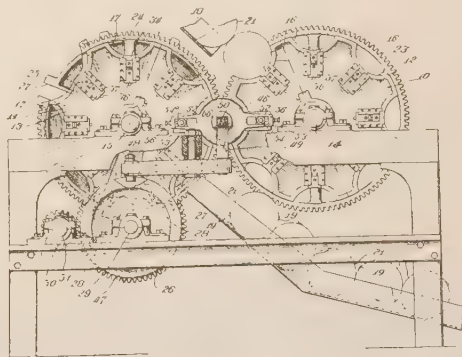


13. A tire protector composed of canvas strips sewed transversely to form pockets and arranged side by side in annular form to fit a wheel; said pockets having looped cord sections therein radial to the annulus thus formed; means to fasten the corded strips together and a cementing and protecting composition in said strips and cord sections.

1,423,693. MACHINE FOR APPLYING EARS TO PAILS. WILLIAM SPAIN, Riverside, Ill., assignor of one-half to Corn Products Refining Company, Argo, Ill., a Corporation of New Jersey. Filed Aug. 9, 1920. Serial No. 402,406. 22 Claims. (Cl. 113—1.)

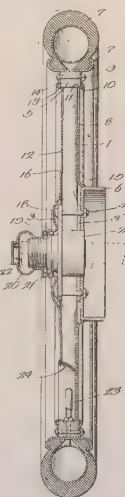
1. In apparatus for applying handle-receiving ears to pails, the combination with a support for a pail body adapted to support said body in a position to receive an ear, of an ear-retaining device adapted to normally hold an ear out of contact with said pail body, and mechanism for producing relative movement as between said support and ear-retaining device to position said ear against the pail body.

4. In apparatus for applying handle-receiving ears to pails, the combination with a conveyor adapted to support a pail body together with its previously applied cover rim in a predetermined position, of ear-positioning devices adapted to move ears into contact with opposite sides of



movement as between said pail body and ears while the ears are held in contact with said body whereby the ends of said ears are forced between the wall and cover rim of the pail.

1,423,694. WHEEL. FREDERICK S. STAFFORD, Chicago, Ill., assignor to Henry G. Saal, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,642. 5 Claims. (Cl. 301—37.)

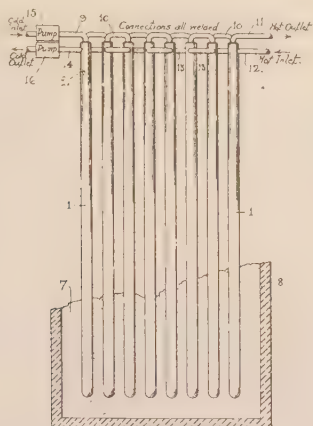


1. A wheel having a tire, spokes, and a hub which has a flange and a circular clamping plate between which hub elements the inner ends of the wheel spokes are disposed, and bolts that clamp said hub elements against the spokes; in combination with a disc substantially covering a face portion of the wheel that is surrounded by the tire and formed with an outwardly bulging annular swell near the wheel hub that surrounds an annular disc portion and covers ends of the aforesaid bolts.

1,423,695. HEAT EXCHANGER OR CONDENSER. PALMER ST. CLAIR, JR., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 9, 1919. Serial No. 329,466. 2 Claims. (Cl. 257—246.)

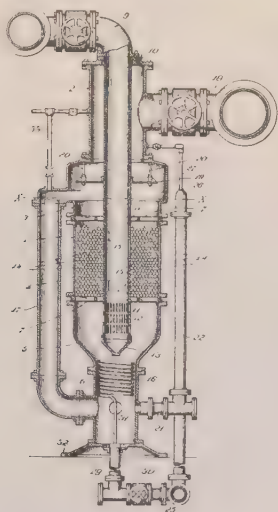
1. In an apparatus for exchanging heat between fluids, a plurality of heat exchanging devices connected in series and each comprising an inner tube or heat conductive material provided with a twisted ribbon-like element for dividing the interior thereof into winding conduits, a spi-

rally wrapped strand upon the outer surface of said tubular member, a second tubular member covering said strand and co-acting therewith to form with said strand and first named member an exterior winding conduit, means for



connecting the said interior conduits, and means for connecting the said exterior conduits whereby a flow of liquid may be maintained in both conduits throughout the several heat exchanging devices.

1,423,696. APPARATUS FOR AND PROCESS OF PURIFYING GAS. ARTHUR L. STEVENS, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,442. 16 Claims. (Cl. 183—121.)

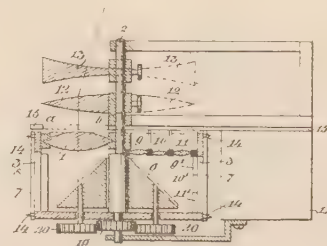


1. A gas purifying apparatus comprising in combination a reservoir for containing a purifying liquid, a by-pass pipe connected with said reservoir at an upper and lower level, a gas supply conduit discharging into said reservoir at an intermediate level, a grate in said reservoir above the discharge end of said supply pipe, a body of small objects of a configuration to provide voids between them supported by said grate for subdividing the gas into minute streams, and a gas discharge conduit connected with said reservoir for conducting away the cleaned gas.

1,423,697. CINEMATOGRAPH. JAN SZCZEPANIK, Tarnow, Poland. Filed June 28, 1920. Serial No. 392,446. 4 Claims. (Cl. 88—168.)

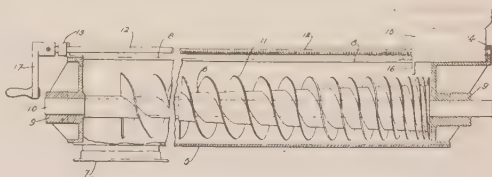
1. In a cinematograph, a plurality of cameras symmetrically arranged about a common axis, a drum for a film

band having a wall penetrable by light concentric with said axis, the plane of the objectives of the cameras being at an angle to said axis and said wall, and reflecting elements in the angle between said objectives and said wall,



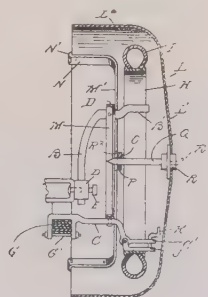
a film band on said drum, said plurality of cameras and said film band being movable, the one with respect to the other about said axis, and means to successively open and close the objectives of the cameras.

1,423,698. FEEDING DEVICE. FRANK S. THURSTON, Chicago, Ill. Filed Sept. 14, 1920. Serial No. 410,244. 2 Claims. (Cl. 198—213.)



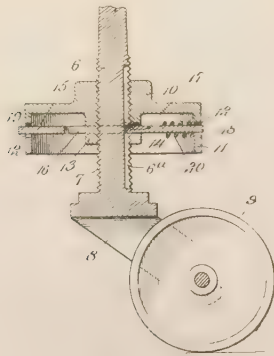
1. In a feeding device, a tubular housing, bearings supported at the ends of the housing, said housing having an opening formed in the upper surface thereof and having a discharge opening formed at one end thereof, a spiral conveyor operating within the tubular housing, a threaded shaft operating above the opening, a receiving hopper movable along the threaded shaft for accurately distributing material within the housing and means carried by the hopper for preventing material fed to the housing from being thrown therefrom.

1,423,699. TIRE CARRIER. HARRY B. TUTTLE, Jeannette, Pa. Filed Nov. 10, 1919. Serial No. 337,079. 8 Claims. (Cl. 224—29.)



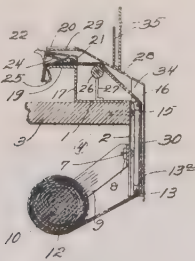
6. In a device of the character described, the combination with a spare tire carrier member having a cover member with a rim portion for surrounding the tire, of a plurality of bracket members secured to a vehicle and interiorly engaging said rim portion to support the cover member, and means carried by said brackets within said cover member providing a support for the tire.

- 1,423,700. LOCKING MEANS FOR CASTER PINTLES. GEORGE F. VAN METER, Indianapolis, Ind., assignor to United States Caster Co., Incorporated, Indianapolis, Ind. Filed Sept. 12, 1921. Serial No. 500,087. 1 Claim. (Cl. 16—19.)



In a caster, the combination of a shank, a hanger secured thereto, a roller secured to the hanger, a slot provided longitudinally in the threaded portion of the shank, and a bearing threaded on the shank and adapted to move upwardly and downwardly on the shank, a cup shape portion formed on the bearing and an inner flange formed on the lower end of the bearing, an aperture formed in the flange, apertures formed in the cup-shaped portion, and a locking element adapted to seat in the apertures of the cup-shaped portion and also in the aperture of the flange, and having a portion that normally seats in the longitudinal slot of the shank, means for retaining the portion in the slot of the shank.

- 1,423,701. NAPKIN-DISPENSING DEVICE. CLAY R. VINSON, Tulsa, Okla. Filed June 6, 1921. Serial No. 475,271. 6 Claims. (Cl. 211—32.)

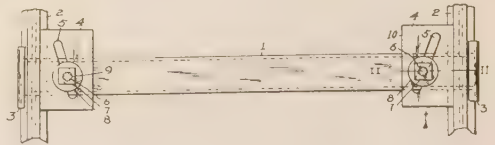


1. In a device of the character described, the combination of a horizontal support, an angular supporting member secured to one edge of said support and projecting both above and below the same, means for suspending a roll of material from the lower projecting portion of said member, a cover member applied to said supporting member and having means cooperating with the upper projecting portion of the latter to clamp the material while a portion is being torn therefrom, and guiding means between the source of material and said clamping means and including means for preventing rearward movement of the material after a portion has been torn therefrom.

- 1,423,702. RAILWAY TIE AND SECURING DEVICE. SAMUEL WALLWORK, Summerville, Pa. Filed Apr. 18, 1922. Serial No. 554,475. 5 Claims. (Cl. 238—347.)

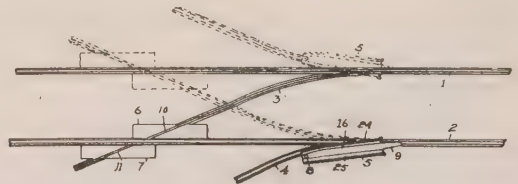
1. The combination with a flanged rail and a metal tie having a perforation adjacent the flange of the rail, of a

clamping plate of wrought metal having a cam slot over said perforation and lying at an angle to the line of the rail with its edge lying over the flange of the rail, and a



headed locking member extending through said perforation and slot and clamping the plate so that the plate is sprung or bent and applies yielding pressure to the rail.

- 1,423,703. SWITCH CONSTRUCTION. SAMUEL WALLWORK, Summerville, Pa. Filed Apr. 18, 1922. Serial No. 554,476. 5 Claims. (Cl. 238—12.)



1. The combination with a main line track, of a switch point device comprising a channel with upwardly extending flanges, a pivot at the rear end thereof, and a tongue secured between said flanges and having its forward end beveled and adapted to lie over the rail of the main line track when the device is in closed position, the sides of said tongue being spaced away from said flanges so that a groove is provided for the wheel flanges on each side of the tongue and the parts on the opposite sides of the center line of the device being similar so that it may be used on either side of the track.

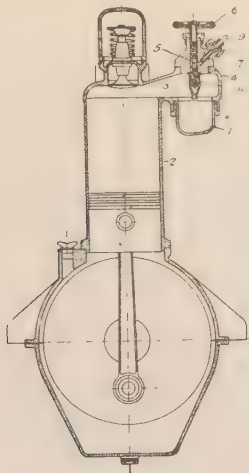
- 1,423,704. METHOD OF STERILIZING AIR. ALBERT WOLFF, Berlin, Germany. Filed Nov. 3, 1920. Serial No. 421,589. 1 Claim. (Cl. 183—117.)

The method of sterilizing air which consists in washing air on the counter-flow principle and in the finest possible state of distribution with a stable watery solution rich in ozone, renewing the percentage of ozone in the said washing liquid after use and using it anew for washing air.

- 1,423,705. INTERNAL-COMBUSTION AND HOT-AIR ENGINE. ALBERTO BAGNULO, Turin, Italy. Filed Sept. 23, 1919. Serial No. 325,670. 2 Claims. (Cl. 123—31.)

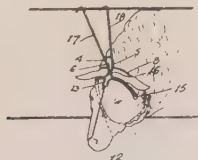
1. In a heavy oil, four stroke cycle, internal combustion engine, the combination with the engine cylinder; of a vaporizing and combustion chamber arranged laterally of the cylinder and in constant communication therewith, and a fuel feeding device above the vaporizing chamber and discharging vertically, said device comprising a fuel regulating valve and an automatic ball valve controlling

the fuel supply to the regulating valve, arranged to feed fuel to the vaporizer during the exhaust and suction



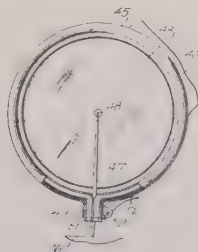
strokes of the engine when the pressure within the engine cylinder becomes less than the fuel pressure.

1.423,706. ANIMAL POKE. PHILIP BARNEY, Dollard, Manitoba, Canada. Filed Mar. 8, 1920. Serial No. 364,106. 4 Claims. (Cl. 119-142.)



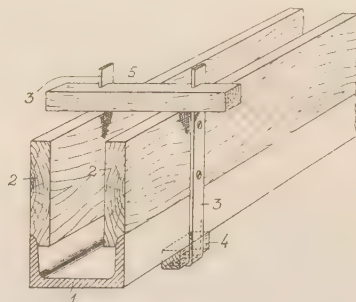
1. In an animal poke, the combination with a neck attaching part and a pair of upwardly extending diverging prongs carried by the neck part, of a pair of forwardly positioned members attached to the neck part and adapted to span the forehead of the animal and a nose part connected to the latter members and terminating in a piercing hooked end.

1.423,707. SOUND BOX. HENRY BERMAN, Ossining, N. Y., assignor of one-half to Emil Erik, Ossining, N. Y. Filed July 2, 1921. Serial No. 482,121. 4 Claims. (Cl. 274-35.)



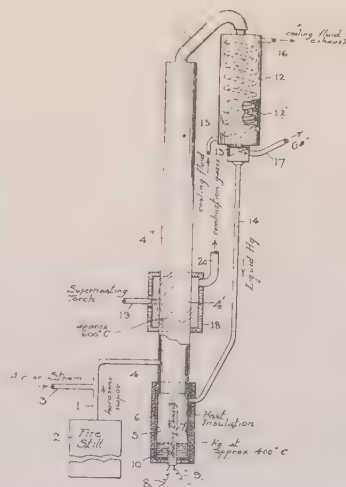
1. In combination in a phonograph, a reproducer having a metallic diaphragm, a flange integral with said diaphragm, and a wire enclosed by said flange, said wire having outwardly bent ends.

1.423,708. MOLD FOR CONCRETE BEAMS. SIGURD BRUN, Frederiksberg, Denmark. Filed Mar. 25, 1921. Serial No. 455,515. 1 Claim. (Cl. 25-121.)



Mold for molding concrete beams of an L-shaped section consisting of a U-shaped section iron, serving as mold for the head of the concrete beam to be molded, boards, forming the sides of the mold, adapted to be fitted on the edges of the flanges of said section iron, and means for holding the said members of the mold together and in a proper relative position to each other.

1.423,709. PROCESS FOR PRODUCING GASOLINE AND THE LIKE. JOHN COLLINS CLANCY, Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 31, 1919. Serial No. 314,434. 15 Claims. (Cl. 196-26.)



1. The process of cracking hydrocarbons, which comprises subjecting a hydrocarbon oil, while in vaporous condition, to the catalytic action of mercury vapor.

1.423,710. PROCESS OF DESULPHURIZING OIL. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 8, 1920. Serial No. 394,818. 19 Claims. (Cl. 196-26.)

1. The process of purifying mineral oil, which comprises, treating a mass of said oil with liquid anhydrous ammonia to cause the sulfur present in said oil to combine with said ammonia to form an ammonia-sulfur compound and separating said compound from the oil.

10. In a process of purifying mineral oil to step which comprises reacting upon said oil with ammonia in the presence of a catalyst to cause the sulfur present in the oil to combine with the ammonia.

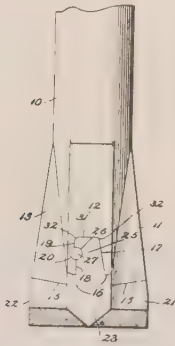
1,423,711. PROCESS FOR OBTAINING SULPHUR COMPOUNDS FROM MINERAL OILS AND THE LIKE. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 14, 1920. Serial No. 396,220. 16 Claims. (Cl. 23—13.)

1. A process for recovering sulphur from sulphur bearing mineral oil, which comprises effecting the removal of sulphur from said oil in the form of an ammonia-sulphur compound through the intermediacy of liquid ammonia.

1,423,712. METHOD OF DESULPHURIZING OIL. JOHN COLLINS CLANCY, Providence, R. I., assignor to The Nitrogen Corporation, Providence, R. I., a Corporation of Rhode Island. Filed July 17, 1920. Serial No. 397,056. 8 Claims. (Cl. 196—26.)

1. A process of desulphurizing mineral oil, which comprises treating a heated mass of said oil with ammonia vapor and steam.

1,423,713. DETACHABLE BIT FOR DRILLS. HILTON HENRY DES ROCHES, Butte, Mont., assignor of one-half to Michael J. Scott, Butte, Mont. Filed June 5, 1920. Serial No. 386,690. 12 Claims. (Cl. 255—64.)

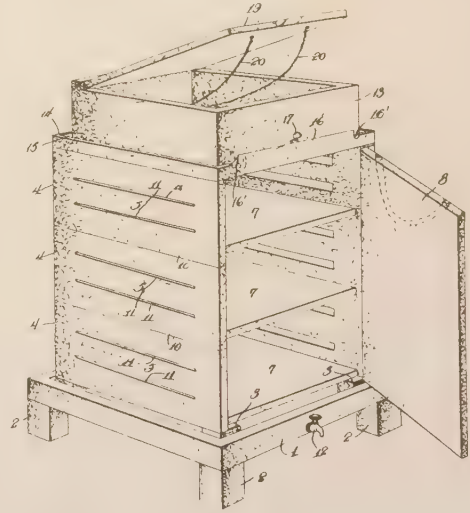


1. A drill or drill bit comprising a body or shank and a detachable cutting portion or bit fitting closely the end of said shank across the transverse end surface, the meeting surfaces being so formed as to have tongue and groove engagement at different transverse angles preventing relative lateral or rotary movement and causing a tight fit under end pressure and releasable locking means for preventing longitudinal movement of the bit away from the shank.

1,423,714. MILK OR CREAM CABINET. WILLIAM P. FRY, Marble Falls, Tex. Filed Oct. 25, 1920. Serial No. 419,404. 1 Claim. (Cl. 45—134.)

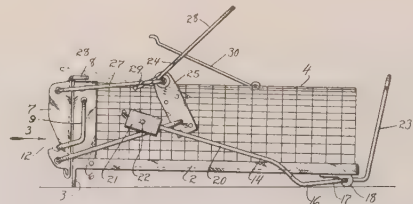
A cooling cabinet of the character described comprising a supporting basin, a series of superposed compartments mounted upon each other, the upper marginal edge of each compartment being provided with a beveled edge, the lower marginal edge of each compartment having a beveled flange adapted to fit the beveled edge of the adjacent compartment, the said walls of each compartment being equipped with angular slots extending downwardly from the inside walls of the compartment, the inner terminals of the said angular slot being considerably wider than the outer terminals which open on the outer surfaces of the said walls whereby air may pass freely into the said compartment but water flowing downwardly over the surface of the walls will be excluded from the said compartment, and a reservoir mounted upon the top of the uppermost com-

partment and provided with a trough around its side, the front flange of the trough being higher than the other



flanges thereof whereby water will flow only over the side and rear flanges and be permitted to flow down the side and rear walls of the said compartment.

1,423,715. ANIMAL TRAP. JOHN A. HEDBERG, Denver, Colo., assignor to The South Side Manufacturing Company, Denver, Colo., a firm composed of Elmo E. Ridgley and John A. Hedberg. Filed Aug. 6, 1921. Serial No. 490,297. 8 Claims. (Cl. 43—61.)

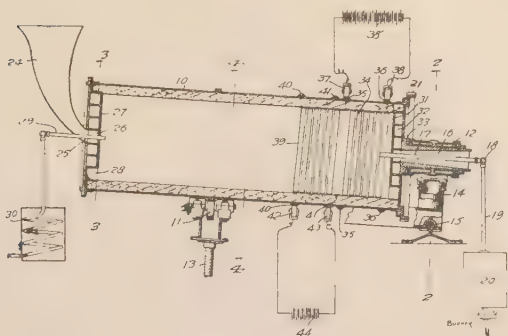


8. An animal trap comprising a lever, a tiltable platform supported at one end on an arm of the lever, a counterpoise on the other arm of the lever, a cage above the platform, having an entrance, a gate adapted to close said entrance, and mechanism to hold the gate in an open position and to allow of closing movement of the same, including a rocker-lever connected with the gate and composed of foldably connected members, a catch loosely engaging with an arm of the rocker lever, and a trigger on the supporting lever, engaging with the catch.

1,423,716. PROCESS OF DISTILLING SHALE. EDWARD E. HEDGES, New York, N. Y. Filed June 13, 1921, Serial No. 477,293. Renewed Apr. 8, 1922. Serial No. 550,795. 6 Claims. (Cl. 196—21.)

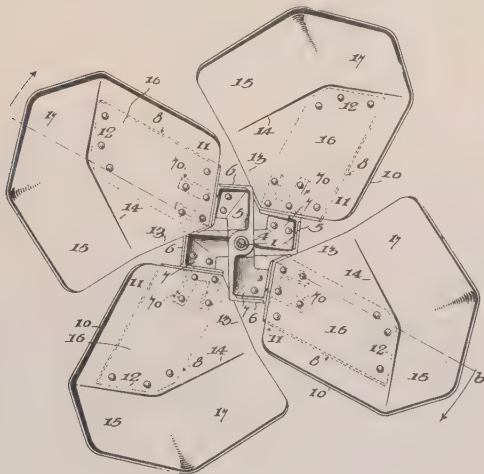
1. The process of distilling oil bearing shale, consisting in introducing raw shale into one end of an elongated retort, moving the shale along the retort under constant agitation, maintaining heat within said retort varying from a temperature to drive off the most volatile ingredients at the end of introduction to a temperature to decompose water in the presence of carbon at the opposite

end, conducting the released gases backwardly through progressively cooler areas, introducing steam into contact with the heated fixing carbon residuum at the hotter



end, commingling the gases released by decomposition with the released volatile gases, and discharging the spent shale residuum from said hotter end.

1,423,717. CURRENT MOTOR. ELIAS STANLEY HICKS, Yakima, Wash. Filed Mar. 29, 1919. Serial No. 285,970. Renewed Feb. 11, 1922. Serial No. 535,946. 5 Claims. (Cl. 170—170.)

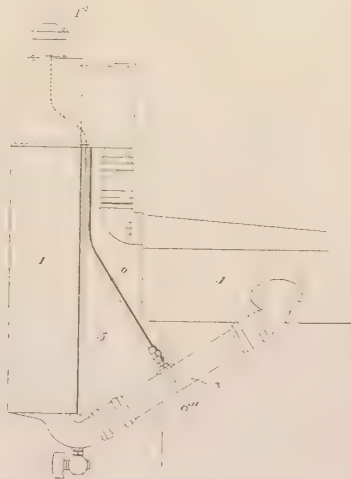


1. A current motor comprising a shaft adapted to be projected in the direction of the current, a pair of paddles transversely mounted with respect to the shaft, a pair of supporting spokes or members fixedly attached to and projected radially from the shaft, the outer end of each supporting spoke including a bearing face disposed at an obtuse angle in a direction transverse to the shaft to the flow of the current, one of the aforesaid paddles being attached to each of the said bearing faces, the bearing face for one paddle being inclined at right angles in the same direction to the bearing face for the other paddle.

1,423,718. INTERNAL-COMBUSTION ENGINE. NORMAN ISACHSON, Albion, Idaho. Filed June 1, 1921. Serial No. 474,087. 3 Claims. (Cl. 123—175.)

3. In combination with an internal combustion engine and its radiator having connecting flow and return pipes, said radiator having a water overflow pipe, a steam pipe

having one end connected with the interior of the radiator above the upper end of the overflow pipe, and its



other end connected to inject steam into the pipe which conveys water from the radiator to the engine.

1,423,719. STABLE FOAM FOR PREVENTING THE EVAPORATION OF STORED LIQUIDS. JAMES M. JENNINGS, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 22, 1920. Serial No. 425,848. 9 Claims. (Cl. 23—11.)

1. A stable foam for preventing evaporation of volatile constituents of a liquid having as its base an aqueous solution containing 25% of glue, 10% of glycerine, 2% of ferrous sulfate, and a minute proportion of a preservative.

1,423,720. FOAM COVERING FOR PREVENTING THE EVAPORATION OF STORED LIQUIDS. JAMES M. JENNINGS, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed May 24, 1921. Serial No. 472,297. 12 Claims. (Cl. 23—11.)

9. A substantially permanent fluent foam having as its continuous phase a liquid comprising less than 15% of water, glycerine and a body-forming material.

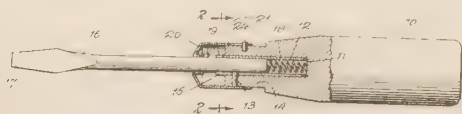
1,423,721. FOAM COVERING FOR PREVENTING THE EVAPORATION OF STORED LIQUIDS. JAMES M. JENNINGS, Elizabeth, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Oct. 26, 1921. Serial No. 510,627. 13 Claims. (Cl. 23—11.)

1. A liquid for producing stable foams comprising from 40 to 81% of glucose, from 6 to 12% of water, from 5 to 10% of glue and a small proportion of a setting agent.

1,423,722. SCREW DRIVER. JAMES E. McCAFFERTY, Newark, N. J. Filed Dec. 30, 1920. Serial No. 434,009. 1 Claim. (Cl. 145—76.)

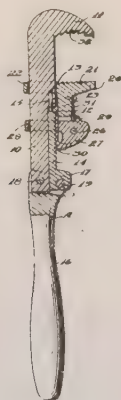
A screw driver comprising a blade, a handle associated with said blade so as to be capable of rotary and longitudinal movement relatively thereto, a positive clutch member fixed to said blade, a positive clutch member fixed to said handle, said clutch members be-

ing arranged to make a positive clutch connection with each other as they are made to engage each other by the exertion of a longitudinal thrust upon the handle, resilient means for holding said ratchet members out of operative relation, means to retain the handle and blade operatively associated, said last named means being operable at will to permit disengagement of the clutch mem-



bers by the influence of said resilient means or to lock the clutch members in engagement with each other against the action of said resilient means and comprising a cap rotatable on the handle and the blade and longitudinally slidable on the handle and having a bayonet slot, and a laterally projecting pin fixed to the handle and engaging in said slot, said cap engaging the clutch member of the blade.

1,423,723. ADJUSTABLE WRENCH. WILLIAM ALEXANDER MARTIN, Commercial Cross, Prince Edward Island, Canada. Filed Dec. 10, 1921. Serial No. 521,416. 3 Claims. (Cl. 81—139.)

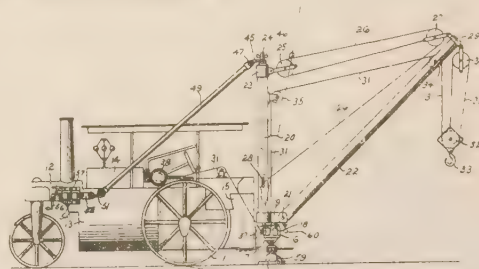


1. An adjustable wrench comprising a shank, formed with a shoulder provided with a recess, a serrated member slidably mounted in the shank, and formed with a pin engaging the recess, a handle pivotally attached to one end of the shank, and to the serrated member, a jaw formed integral with the opposite end of the shank, an adjustable jaw slidably mounted on the shank, an arm on the adjustable jaw extending along the serrated member, a pawl pivotally mounted on the arm, and formed with a lip on one side of its fulcrum, and a wedge point on the opposite side, a slotted arm carried by the pawl engaging the shank, and serrated member, and resilient means on the arm designed to force the wedge pointed pawl in engagement with the serrations.

1,423,724. DERRICK ATTACHMENT FOR ROAD ROLLERS. JOSEPH MASCETTI, Torrington, Conn., assignor to Mascetti & Holley, Torrington, Conn., a Copartnership consisting of Joseph Mascetti and Irving B. Holley. Filed Oct. 27, 1920. Serial No. 419,860. 14 Claims. (Cl. 212—59.)

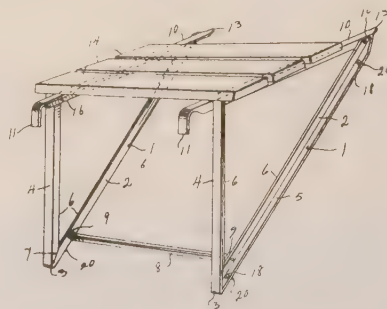
1. In a vehicle-derrick the combination of a mast, a mast bearing connected to the vehicle, stiff legs connected

to said mast and extending therefrom to said vehicle at points spaced apart, connections at the vehicle end



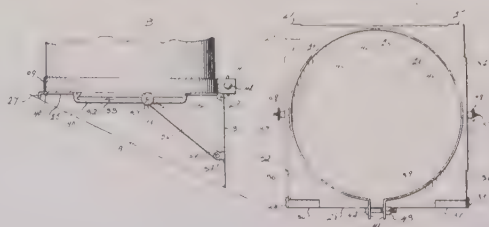
of the stiff legs, and means for independently adjusting and holding the ends in adjusted position.

1,423,725. LADDER PLATFORM AND ROOF JACK. CARL J. MOHR and URBAN J. MOHR, Dayton, Ohio. Filed Nov. 1, 1920. Serial No. 421,021. 3 Claims. (Cl. 304—34.)



1. As an article of manufacture, a ladder platform and roof jack comprising angle bars adapted to assume substantially horizontal positions with their lateral flanges facing toward each other, certain corresponding ends of the bars having means to engage the rung of a ladder, angle braces composed of angle bars and having their corresponding ends secured to the vertical flanges of the horizontal angle bars, said angle braces extending downwardly and having their lateral flanges extending outwardly in opposite directions, and a transverse brace connecting the angle braces, spacing them substantially equal to the distance between the side rails of a ladder, whereby the outward lateral flanges of certain arms of the angle braces may overlies and engage the side rails of the ladder.

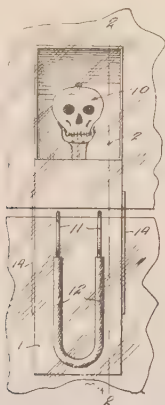
1,423,726. PAINT-BUCKET HOLDER. CARL J. MOHR and URBAN J. MOHR, Dayton, Ohio. Filed Sept. 10, 1921. Serial No. 499,665. 3 Claims. (Cl. 248—41.)



1. A device of the character described comprising a base plate provided with supporting legs, means for supporting, a receptacle upon the base plate consisting of a contractible band provided with clamping means for

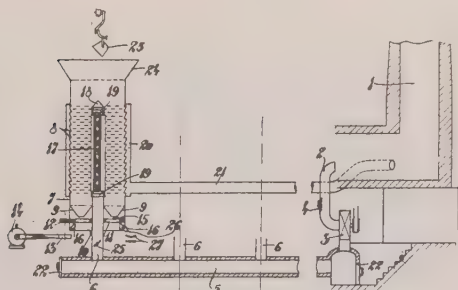
effecting contraction about a receptacle placed within the confines of the band, and connecting means between the band and the base plate, said connecting means being at that portion of the band most remote from the clamping means whereby to permit the contraction and expansion.

1,423,727. DANGER SIGNAL. WILLIAM F. MORAN, Frederick, Md. Filed Feb. 6, 1922. Serial No. 534,499. 3 Claims. (Cl. 116—116.)



3. In combination with the apparatus described in claim 2, a vertical slidable plate member mounted on the casing and adjustable to extend partially over and regulate the size of the wind opening.

1,423,728. MEANS FOR CONTINUOUS PREDRYING OF FUEL. OTTO NORDSTRÖM, Matfors, and ARNE MÖRCK, Sundsvall, Sweden. Filed Nov. 10, 1920. Serial No. 423,146. 2 Claims. (Cl. 34—24.)

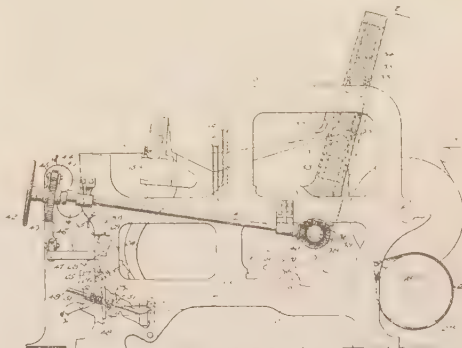


1. A fuel drying apparatus including a tower having a perforated wall, a tower-shaped trellis-work centrally arranged in said tower, means for introducing a current of hot gases at the bottom of said trellis-work, means for supplying wet fuel at the top of said tower, a rotary conical bottom in said tower, spirally arranged ribs on the upper surface of said conical bottom to cut away the lowermost layer of the mass dried and feed same out from the tower, and a gas collecting chamber surrounding the perforated tower.

1,423,729. WARP TAKE-UP AND TENSIONING MECHANISM FOR LOOMS. SEVALL K. OLIVER, Columbia, S. C. Filed Mar. 14, 1921. Serial No. 451,977. 16 Claims. (Cl. 139—81.)

2. In a slack take up device for looms, the combination with the warp delivering and shed forming mechanisms,

of normally inoperative means for taking up and tensioning the slack warp threads intermediate the warp delivering and shed forming mechanisms, and connections for positively actuating said take up and tensioning means,



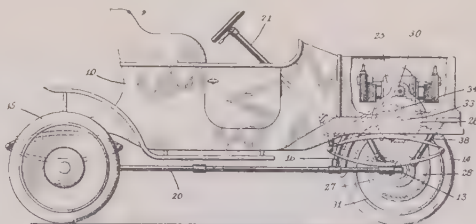
said actuating connections being manually operable and independent of the warp delivering mechanism, whereby the slack warp threads may be placed under a tension independently of the warp delivering mechanism.

1,423,730. ACCESSORY FOR AUTOMOBILES. GEORGE D. ORR, Cincinnati, Ohio. Filed Feb. 16, 1921. Serial No. 445,554. 1 Claim. (Cl. 116—47.)



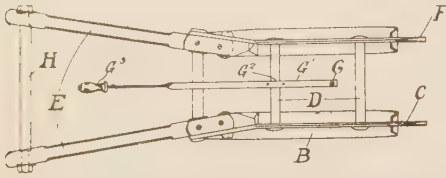
An automobile indicator comprising front and rear pointers rotatably mounted upon the top of the vehicle, the front pointer being mounted upon a wire extending down through the top and bent forwardly to form an operating handle, said wire having laterally extending rods to which are attached rearwardly extending rods, said rods being connected to the rear pointer by means of crossed wires, whereby the two pointers are caused to move in unison.

1,423,731. MOTOR VEHICLE. ALDEN E. OSBORN, New York, N. Y. Filed Feb. 21, 1921. Serial No. 446,917. 6 Claims. (Cl. 180—26.)



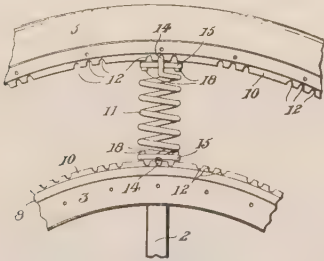
1. In a motor vehicle, the combination of a traction wheel, a support for said wheel about which said wheel can rotate, an axle on which said support is pivotally mounted, a propelling motor, means for transmitting the rotation of said motor to said traction wheel, means for supporting said motor connecting with said wheel support, and means for steadying said motor having a pivotal connection with the supporting means thereof above said traction wheel and with the pivot's axis substantially in line with the axis of said support's pivotal mounting.

1,423,732. ICE CONVEYER. LELAND F. PIXLEY, Afton, N. Y. Filed Sept. 7, 1920. Serial No. 408,768. 6 Claims. (Cl. 280—23.)



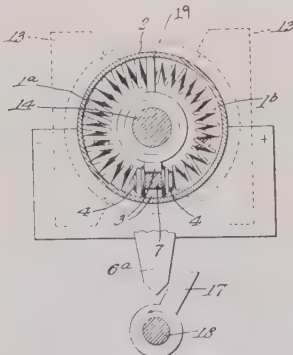
1. An ice conveyer comprising a plurality of runners each having a relatively wide base, and a longitudinal rib having a sharpened edge to receive and support a cake of ice and to prevent the same from shifting laterally of the conveyer.

1,423,733. SPRING WHEEL. WLADYSLAW PIERNIKOWSKI and STANISLAW GRUDZINSKI, Philadelphia, Pa. Filed Mar. 8, 1922. Serial No. 542,035. 4 Claims. (Cl. 152—8.)



4. In a spring wheel of the type described, a spoke supported felly, a band secured to the felly, a rim surrounding the felly and spaced therefrom, flexible side sheets extending between the felly and rim, opposed circumferentially extending ribs formed on the felly band and rim, said ribs having spaced sets of transverse grooves formed therein, coil springs interposed between the felly band and rim and each carrying at opposite ends an angle arm positioned in an adjacent groove and a clamping block having a groove formed in the inner face thereof receiving the adjacent spring angle arm and anchored to the adjacent rib.

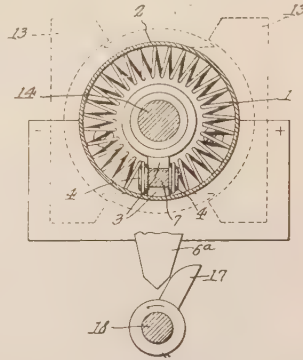
1,423,734. OSCILLATOR FOR MAGNETOS. HARLIE O. PUTT, Elkhart, Ind. Filed Dec. 9, 1919. Serial No. 343,542. 6 Claims. (Cl. 123—149.)



1. In a device of the class described, the combination of an annular housing, resilient means mounted in the housing, a disc for an oscillator, said disc having a stud

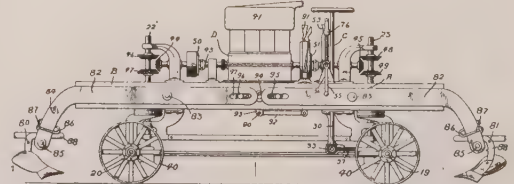
in operative engagement with the spring means, and a slotted stop through which the aforesaid stud is freely movable.

1,423,735. OSCILLATOR FOR MAGNETOS. HARLIE O. PUTT, Elkhart, Ind. Original application filed Dec. 9, 1919, Serial No. 343,542. Divided and this application filed Feb. 20, 1922. Serial No. 538,008. 1 Claim. (Cl. 123—149.)



An oscillating mechanism for a magneto or other electric current generator, the mechanism comprising a pair of oscillating members, a coiled spring connected at its ends to said members, an arm operatively connected with the magneto shaft and adapted to move either member from its normal position against the tension of said spring, whereby the actuated member will impart an accelerated return movement to said arm under the action of the tensioned spring, and means for holding either member against movement during the operation of the other member.

1,423,736. TRACTOR AND PLOWING ATTACHMENT THEREFOR. PHILIP ADAM REINHOLD, Akron, Ohio. Filed May 21, 1920. Serial No. 383,223. 4 Claims. (Cl. 180—50.)

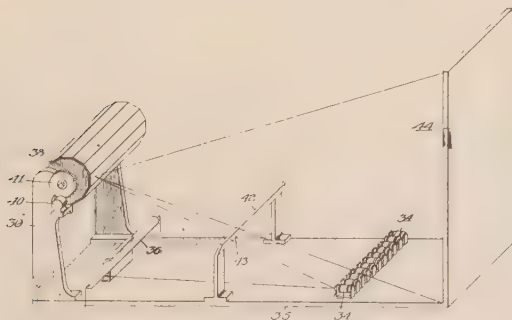


1. A tractor comprising a longitudinally extending frame, axle, housings carried by the frame adjacent to the terminals thereof, and arranged for swinging movement, drive axles rotatably mounted in said housings, vertically disposed rotatable and slidable counter shafts carried by the frame and arranged on opposite sides of the power plant, means operatively connecting the lower terminal of the counter shaft with the drive axle, bevelled gear wheels carried by the terminals of the drive shaft of the power plant, pairs of spaced bevelled gear wheels carried by the counter shaft, and means for simultaneously raising and lowering said counter shaft for bringing one of the pairs of gear wheels on said counter shaft in engagement with the bevelled gears on said drive shaft of the power plant.

1,423,737. ART OF TRANSMITTING PICTURES AND THE LIKE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Sept. 10, 1919. Serial No. 322,815. 11 Claims. (Cl. 178—6.)

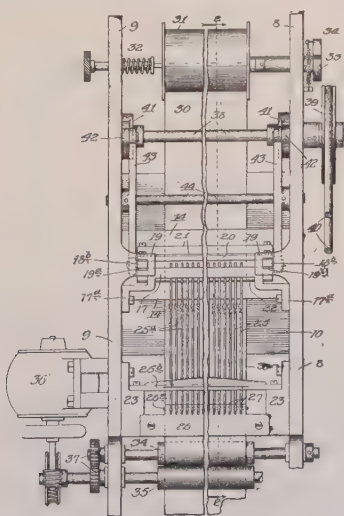
11. In combination, a transmitting device comprising a plurality of light responsive devices capable of producing

energy impulses, means for projecting rays of light to form a picture, a movable mirror adapted to receive rays of light from said picture, means for moving said mirror to successively reflect light rays from definite limited areas of the picture upon the light responsive devices, and an opaque screen interposed between the prism and the light responsive devices, said screen being provided with a slot adapted to limit the area reflected upon said devices, means for separately transmitting the impulses from the individual light responsive devices, and receiving means, said receiving means comprising a screen, a plurality of electro-magnets, mirrors mounted upon the armatures of said electro-magnets, a movable mirror adapted to receive



light rays reflected from said mirrors and to reflect said light rays upon definite areas of said screen in succession, an opaque screen mounted between the electro-magnet mirrors and the movable mirror, said screen being provided with a slot and normally obstructing the passage of said rays, means for projecting light rays against the electro-magnet mirrors, and means for separately receiving the energy impulses transmitted from the definite light responsive device of the transmitting device, and for transmitting said impulses to the individual electro-magnets of the receiving means to thereby actuate the electro-magnet mirrors to project light rays through the slot in the screen against the movable mirror.

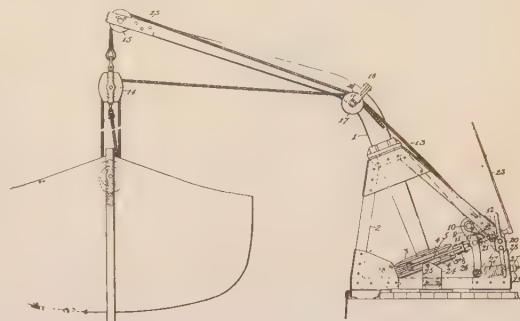
1,423,738. SHEET-PERFORATING MACHINE. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Dec. 6, 1920. Serial No. 428,539. 9 Claims. (Cl. 164—113.)



1. In a sheet-perforating machine, the combination with reciprocating punches, of actuating mechanism therefor including reciprocating means engaging the punches to

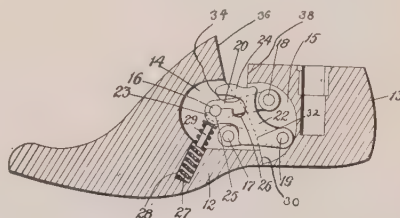
positively advance and retract them, a lever fulcrumed between its ends and operatively connected at one end with said means, and a drive-shaft carrying an eccentric having an arm with which the opposite lever-end is pivotally connected for reciprocating said means.

1,423,739. AUTOMATICALLY-BRAKED DAVIT. ANE P. SCHAT, The Hague, Netherlands. Filed Feb. 1, 1921. Serial No. 441,618. 36 Claims. (Cl. 1—22.)



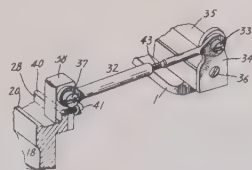
14. In a device of the character described, a davit adapted to swing outboard under the influence of its load; braking mechanism for the davit including a bellcrank lever for applying the brakes; a flexible member adapted at one end to support the load suspended from the davit, and operatively connected at its other end to said bellcrank lever, whereby to apply the brakes to the davit in proportion to the weight of the load; a loaded lever also connected with said bellcrank lever to additionally apply the brakes to the davit; and manually operated means for counteracting the influence of the load and of the loaded lever upon the braking mechanism.

1,423,740. LAST. JOHN CARL SCHELTER, Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Dec. 21, 1918. Serial No. 267,757. 7 Claims. (Cl. 12—136.)



1. A hinge-last having a hinge pin and a member engaging therewith for positively locking the last in extended condition and impositively locking it in collapsed position.

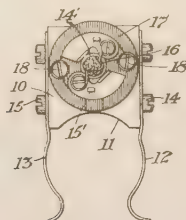
1,423,741. CALCULATING MACHINE. GEORGE A. SEIB, Iilon, N. Y., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed June 11, 1921. Serial No. 476,767. 11 Claims. (Cl. 235—59.)



1. In a computing machine, the combination of a carriage, a totalizer truck, means for connecting the truck to

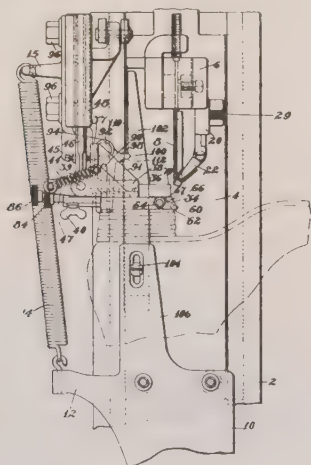
move with the carriage but enabling the truck to have a limited movement relatively to the carriage transversely of the line of travel of the truck, bearing rollers which guide the truck, and non-elastic links intermediate said carriage and truck.

1,423,742. HEATER UNIT. HARRY A. SILVERMAN, New York, N. Y. Filed May 5, 1921. Serial No. 467,059. 7 Claims. (Cl. 219—63.)



1. A heater unit comprising a block having a surface adapted to conform to a surface of a body to be heated, means for securing the block to the body to be heated, and a device for heating the block.

1,423,743. HEEL-BREASTING MACHINE. RALPH C. SIMMONS, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 20, 1919. Serial No. 305,583. 15 Claims. (Cl. 12—47.)



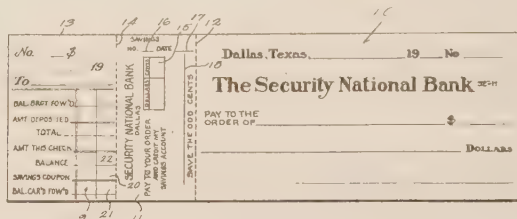
1. In a machine of the class described, the combination of a reciprocating knife, a shoe support, a tread plate, and means arranged to engage the central portion only of the breast end of the toplift on each side of the longitudinal median line of a heel located against the tread plate.

14. In a machine of the class described, a knife stop for engaging the shoe shank comprising a stem arranged for vertical adjustment, a foot pivoted to the stem, and a screw threaded through the stem and having its end arranged to engage a surface of the foot at one side of its pivot adjustment of the screw causing angular movement of said foot in the longitudinal median plane of the shoe.

1,423,744. BANK CHECK AND STUB. DON L. STERLING, Dallas, Tex. Filed May 28, 1921. Serial No. 473,559. 3 Claims. (Cl. 283—58.)

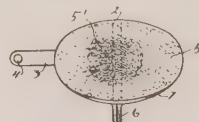
1. A sheet of paper having spaced transverse lines upon which the same is adapted to be torn, said lines forming a check, a saving coupon, and a stub; said check being pro-

vided with the usual check form; said stub having data provided thereon including a line designated balance brought forward, a line designated amount deposited, a line beneath the last named line designated total, a line beneath the last named line designated amount of this check, a line beneath the last named line designated balance, a line beneath the last named line designated savings cou-



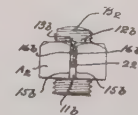
pon, and a line beneath the last named line designated balance carried forward; said coupon being provided with data indicating in substance the name of the same bank occurring upon the check, a space designated for the reception of an amount of money, a line for the name of the payer and instructions to deposit the amount appearing upon the stub to the credit of the savings account of the depositor who signs the coupon.

1,423,745. POWDER PUFF. MABEL W. WILLSON and ANDREW E. WILLSON, Grand Rapids, Mich. Filed Oct. 18, 1921. Serial No. 508,554. 5 Claims. (Cl. 132—78.5.)



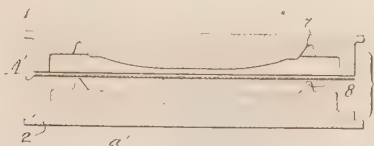
1. In a powder puff, two pieces of fabric each having one plain surface and one fluffy surface, each of said pieces of fabric centrally folded with the plain surfaces outward and the folded edges stitched together in such a manner that the puff may be folded with both pairs of fluffy surfaces contacting and protected, or may be opened so one pair of said surfaces may be exposed and made to form a fluffy surface for the storage and application of powder.

1,423,746. LOCKING MEANS FOR NUTS, BOLTS, AND THE LIKE. HAROLD BATCHELOR, Jersey City, N. J. Filed Apr. 8, 1919. Serial No. 288,554. 4 Claims. (Cl. 151—25.)



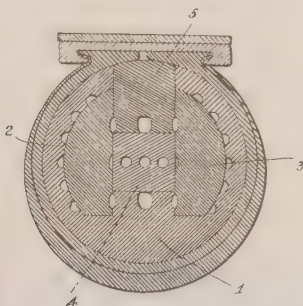
1. In a device for locking a nut to a bolt or the like, comprising a resilient angular element, one corner of the nut being formed with a groove in substantial parallelism with the axis thereof providing a seat for one leg of said element, opposed edges of said groove extending over said leg so as to retain it therein, the free end of the leg having an outwardly directed offset portion coacting with said edges to control the free movement of the leg relatively to said seat, the other leg of the angular element reaching the bolt slantingly so as to engage the thread thereof on either side, the free end of said other leg biting into said thread when in advance of the seat, and admitting of being brought past a radial position by excessive pressure so as to oppose rotation in the reverse direction.

1,423,747. METHOD OF MAKING PRESSED-STEEL VEHICLE WHEELS. DAVID H. BELLAMORE, New York, N. Y., and THOMAS I. S. BOAK, East Orange, N. J., assignors, by direct and mesne assignments, to Steel Wheel Corporation, a Corporation of New York. Filed Sept. 15, 1919. Serial No. 323,836. 12 Claims. (Cl. 29—150.)



1. The method of making a disc wheel which consists in manipulating blanks of normalized alloy steel between dies to impart the desired shape thereto, thereafter hardening and tempering the resulting parts and assembling them to form the wheel.

1,423,748. SECTIONAL INNER STRIP FOR AUTOMOBILE TIRES. WOLF BERMAN, New York, N. Y. Filed Jan. 19, 1922. Serial No. 530,462. 2 Claims. (Cl. 152—5.)



1. A combination of a containing-strip which fits into automobile tires in connection with two supporting-strips, one cushion-strip and one plug-strip, all of which fit within the containing-strip and are of special designs, each part containing air-channels which furnish yieldability, and all parts fitting snugly and securely within one another, and functioning as one unit.

1,423,749. GARMENT-SUPPORTING DEVICE. ELIZABETH BOWLER, Westport, S. Dak. Filed Apr. 19, 1921. Serial No. 462,511. 2 Claims. (Cl. 241—12.)



1. A device of the class described, including a pair of side clasps having approximately horizontal loops to receive shoulder straps of a garment and provided with de-

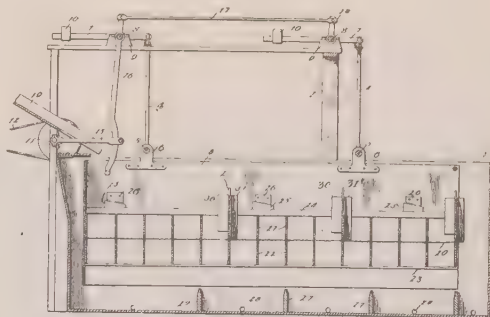
pending portions having slots, inclined relative to said loops, a member provided with means for securing it to the clothing of the wearer and flexible means extending from the said member to the said clasps and secured in the inclined slots thereof.

1,423,750. PILOT-LIGHT BURNER. JULIUS BROMBACHER, Los Angeles, Calif. Filed Nov. 19, 1921. Serial No. 516,460. 5 Claims. (Cl. 158—115.)



5. A pilot light burner comprising a gas supply pipe having an internal shoulder, and a square bar loosely resting on the shoulder of, and extending beyond the end of, said pipe.

1,423,751. ORE-SEPARATING DEVICE. WILLIAM SHERMAN BROWN, Wallace, Idaho. Filed Apr. 17, 1920. Serial No. 374,689. 2 Claims. (Cl. 83—80.)

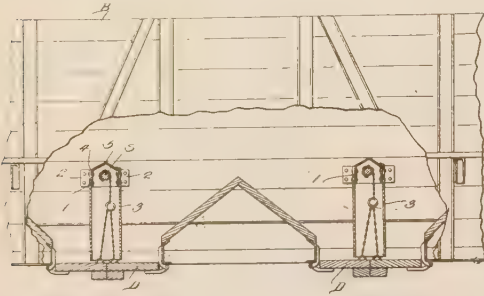


1. A sizing apparatus for ore comprising a tank having a plurality of partitions defining compartments, a basket within the tank and having upper and lower series of parallel spaced transversely extending slats and a screen held between the slats, pairs of cups attached to opposite sides of certain of said slats, one cup of each pair having its lower end open and spaced above the screen, the other cup having its lower end open and in contact with the screen, said slats notched to provide communication between the cups of each pair, and vertically adjustable gates having openings adapted for registration with said notches, said cups extending above the upper edge of said slats and constituting guides for said gates.

1,423,752. WINDING SHAFT AND CHAIN GUARD FOR DUMP CARS. OLIVER L. BURFORD and HUBERT DE BARDELEBEN, Ensley, Ala. Filed June 16, 1921. Serial No. 478,119. 1 Claim. (Cl. 105—292.)

The combination with a dump car having bottom closures movable vertically into and out of a closed position, a winding shaft extending through the car over the closures and chains wound upon the shaft and extending downwardly therefrom and connected with the closures; of an inverted channel-shaped guard extending through the car and extending above and upon opposite sides of the shaft, said guard being connected at its ends with the

walls of the car body, depending hollow arms connected with the guard and extending downwardly therefrom and positioned about the depending portions of said chains,

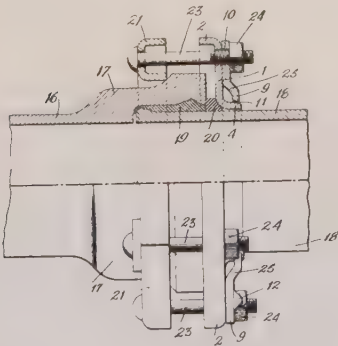


said channel-shaped guard being formed with inspection openings over said depending hollow arms, and hinged closures for said openings.

1,423,753. METHOD OF PRODUCING ACTIVE METHYLENE BODIES. CARNIE B. CARTER and ALBERT E. COXE, Pittsburgh, Pa., assignors, by mesne assignments, to S. Karpen & Bros., a Corporation of West Virginia. Filed Aug. 27, 1920. Serial No. 406,435. 11 Claims. (Cl. 23—24.)

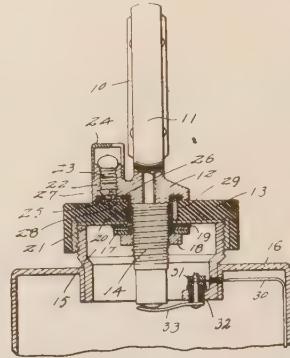
1. The method of producing an active methylene body which comprises reacting upon ethylene with an ozonized agent in the presence of an aqueous medium adapted to favor the formation of a preponderant proportion of the active methylene body.

1,423,754. DIVIDED RING FOR PIPE CLAMPS AND THE LIKE. JAMES CLARK, Bradford, Pa., assignor to S. R. Dresser Manufacturing Company, Bradford, Pa., a Corporation of Pennsylvania. Filed Sept. 27, 1921. Serial No. 503,666. 5 Claims. (Cl. 285—142.)



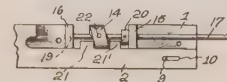
1. A divided ring for pipe clamps and the like, comprising an annular plate member provided with bolt holes, said ring being formed in sections, the lines of separation between the ends of adjacent sections passing through bolt holes, said ring sections being provided adjacent to their inner edges with locking apertures and a bridge plate connecting said sections, each provided with means for connecting it with the plate member on opposite sides of the line of separation between adjacent sections and having its inner edge provided with locking fingers for engaging the locking apertures of the ring sections on opposite sides of said lines of separation.

1,423,755. ELECTRICALLY-LIGHTED MOTOR METER. CLARENCE HORTON CRAFT, Uniontown, Pa., assignor of one-third to Harmer D. Hutchinson, Uniontown, Pa., and one-third to John Q. Adams, Uniontown, Pa. Filed Aug. 25, 1921. Serial No. 495,188. 4 Claims. (Cl. 240—2.)



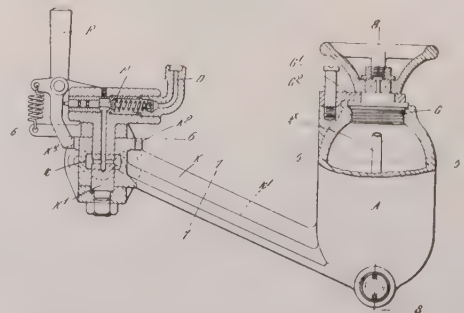
1. The combination with an automobile radiator, its closing cap, and a heat registering device disposed on and insulated from the cap, of an electrical lighting bulb above the cap to light the registering device, in electrical connection with the said registering device and with the cap, and an electrical contact member within the radiator engageable by a portion of the said heat registering device when the cap is in place on the radiator.

1,423,756. ELECTRIC HAIR CLIPPER. LEONCIO DAVID, Washington, D. C. Filed Feb. 20, 1922. Serial No. 538,013. 1 Claim. (Cl. 30—1.)



A hair clipper comprising a pair of juxtaposed blades secured together for relative longitudinal movement, one of said blades having inturned flanges, a drive shaft journaled in said flanges, a drive cam on said shaft, means on the other of said blades engaged by said cam, whereby said last mentioned blade is reciprocated when said shaft is rotated.

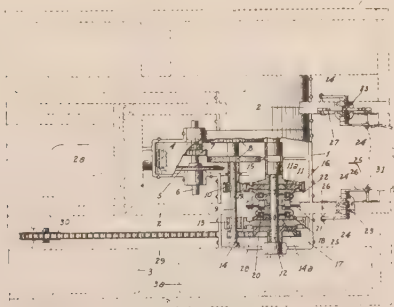
1,423,757. ORDNANCE. ARTHUR TREVOR DAWSON, Westminster, London, and JAMES HORNE, Barrow-in-Furness, England, assignors to Vickers Limited, Westminster, England. Original application filed Sept. 4, 1920, Serial No. 408,320. Divided and this application filed Oct. 25, 1921. Serial No. 510,391. 3 Claims. (Cl. 89—1.)



2. For use with ordinance, a device for spraying a substance into the bore of the gun, said device comprising in

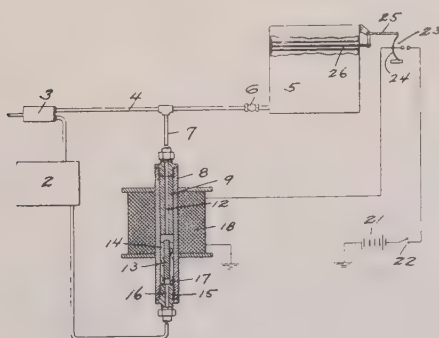
combination an arm pivoted to the rear part of the gun, a container for the said substance and an injector nozzle and a spraying nozzle all carried by said arm so as to be capable of being brought by movement of said arm from the inoperative or housed position in which they are out of the way of the breech mechanism, into the operative or spraying position with said spraying nozzle directed into the gun, means for locking the arm in either of its two positions and means for ensuring that the spraying device shall not be caused to operate until said arm occupies the position with the spraying nozzle directed into the gun.

1,423,758. DRIVING MECHANISM FOR TRACTORS. JOSEPH C. F. DICK, Stockton, Calif. Filed July 12, 1920. Serial No. 395,442. 6 Claims. (Cl. 180—17.)



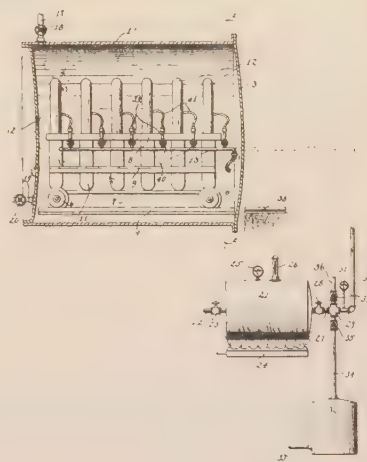
1. A driving mechanism for tractors comprising a drive shaft, drive wheels, an independent axle for each such wheel keyed thereto and parallel to the shaft, a faced member on the axle turned by the shaft in the opposite direction thereto, another faced member on the axle turned by said shaft in the same direction, thereas, both said members being turnable on the axle, friction discs on the axle on each of the faced members and adapted to bear thereagainst and held against turning on the axle, and means for causing either at a time of the faced members to be gripped between the corresponding discs.

1,423,759. APPARATUS FOR CONTROLLING THE FLOW OF WATER TO BOILERS. JOHN A. DOBLE, San Francisco, Calif., assignor to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed May 15, 1918. Serial No. 234,769. 3 Claims. (Cl. 103—97.)



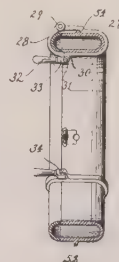
1. An apparatus for controlling the temperature within a steam generator comprising means for introducing a liquid into the generator and a by-pass for the liquid, characterized by the fact that the by-pass is opened or closed solely by variations in the temperature of the steam whereby this temperature is kept within definite limits.

1,423,760. METHOD OF VULCANIZING PNEUMATIC TUBES. WALTER L. FAIRCHILD, New York, N. Y. Filed Sept. 3, 1920. Serial No. 408,017. 3 Claims. (Cl. 18—53.)



1. The method of vulcanizing rubber tubes consisting in encasing them in suitable molds and subjecting the same to the heat of steam applied to them externally in a closed steam chest, and applying gaseous pressure to the tubes interiorly at the same time, and then connecting the interiors of the vulcanized tubes with a vacuum tank to free them from the molds.

1,423,761. MOLD FOR PNEUMATIC TUBES AND SIMILAR ARTICLES. WALTER L. FAIRCHILD, New York, N. Y. Filed Sept. 3, 1920. Serial No. 408,018. 8 Claims. (Cl. 18—38.)

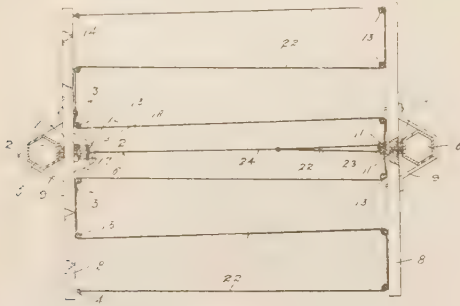


1. A mold for pneumatic tubes comprising a plurality of members adapted to be fitted together so as to provide a tubular structure, one of said parts being provided with an aperture, a removable plate adapted to close said aperture, the edges of said aperture and plate being beveled to engage each other and provided with corresponding openings to receive a valve stem, and detachable means for maintaining the plate and aperture in engagement.

1,423,762. CLOTHESLINE SUPPORT. CHARLES F. FRANZEN, Chaska, Minn. Filed Aug. 1, 1921. Serial No. 488,840. 3 Claims. (Cl. 68—3.)

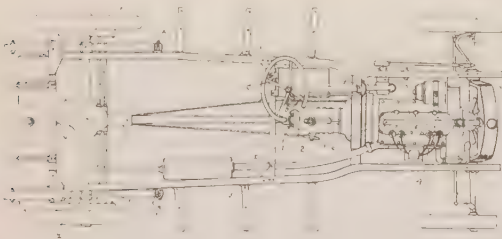
1. A clothes line support comprising laterally spaced line-supporting bars having means for attachment to supporting posts or the like and provided on their opposing faces with longitudinally spaced line guides, a line-tight-

ening device on one of said bars, two main lines attached to one of said bars and passed back and forth over the



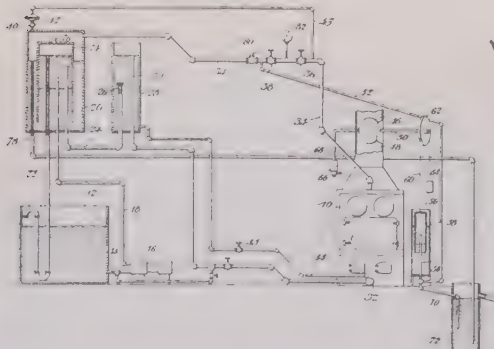
guides on the two bars, and a common tightening line attached to the inner ends of said main lines and to said tightening device.

1,423,763. IDENTIFICATION AND CODING SYSTEM. JOHN F. GELNAW, Cleveland, Ohio. Filed May 5, 1921. Serial No. 466,968. 9 Claims. (Cl. 40—2.)



1. The herein described method of identifying articles, which consists in charting positions of identification upon said article, assigning a plurality of such positions individual to the article or class of articles, semi-permanently applying an identifying mark to the article in each of said positions, and making record thereof, substantially as set forth.

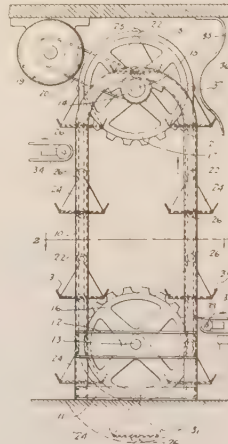
1,423,764. OIL-FIRED STEAM BOILER. BENJAMIN GREENFIELD, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company. Filed Mar. 12, 1920. Serial No. 365,367. 12 Claims. (Cl. 158—36.)



1. A combustion regulator for oil fired boilers which comprises a closed feed tank for oil, means for admitting fluid under pressure to said tank, means governed by the

steam pressure in said boiler for permitting the escape of fluid from said tank, and means governed by the fluid pressure existing in said feed tank for controlling the draft to said furnace.

1,423,765. LOADING AND UNLOADING APPARATUS. CHARLES B. HASTINGS, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,240. 3 Claims. (Cl. 198—154.)



2. A conveyor comprising a plurality of vertically movable buckets having transversely barred bottoms, endless means for supporting and moving said buckets, discharging and receiving platforms associated with the buckets for disposing objects upon and removing said objects from the buckets, and a shifting comb disposed intermediate the upper and lower ends of the upper run of the endless means for shifting the objects from the discharging to the receiving side of said buckets.

1,423,766. METHOD OF TREATING SLUDGE ACIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed Jan. 25, 1922. Serial No. 531,604. 20 Claims. (Cl. 23—1.)

10. The steps in the method of treating sludge acids or separated sludge acids which consist in heating and agitating a weak sludge acid thereby concentrating the same to an intermediate strength and in then heating the said partially concentrated acid without agitation at a higher temperature.

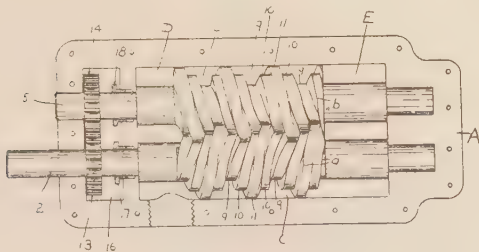
1,423,767. METHOD OF TREATING SLUDGE ACIDS. INGENUIN HECHENBLEIKNER and THOMAS C. OLIVER, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y., a Corporation of North Carolina. Filed Jan. 25, 1922. Serial No. 531,605. 13 Claims. (Cl. 23—1.)

1. The method of treating sludge acids or separated sludge acids which consists in heating and agitating a body of the acid thereby effecting a partial concentration of the same and in then heating a body of the partially concentrated acid without agitation effecting a further concentration thereof.

1,423,768. PUMP. WILLIAM S. HOLDAWAY, Salt Lake City, Utah. Filed Apr. 25, 1921. Serial No. 464,278. 2 Claims. (Cl. 103—44.)

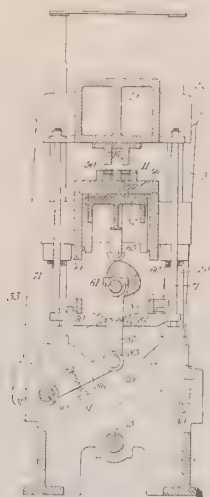
2. A pump comprising a casing having a one piece bottom and a three piece top and with its interior divided

to form a gear case on one end and two intersecting screw chambers in the other portion; parallel shafts mounted for rotation within said casing; screws having intermesh-



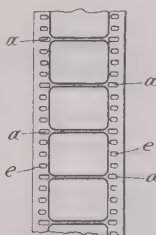
ing stepped threads on said shafts and rotatable therewith; an inlet and outlet chamber at the ends of said screws; and means for rotating said shafts synchronously.

1,423,769. PRESS. WILLIAM KLOCKE, New York, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of West Virginia. Filed May 25, 1920. Serial No. 384,224. 11 Claims. (Cl. 113—38.)



5. A press comprising a reciprocatory slide adapted to carry a blank holder or the like, a reciprocatory punch slide, and a cam adapted to actuate said blank holder slide, said cam being mounted to move with said punch slide, and means for rotating said cam during the movement of said punch slide.

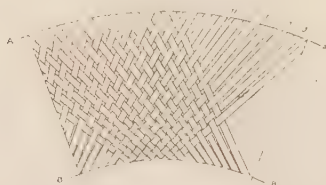
1,423,770. CINEMATOGRAPHIC FILM. STANISLAUS KUCHARSKI, Charlottenburg, near Berlin, Germany, assignor to Richard A. Hansemann, Berlin, Germany. Filed Oct. 1, 1919. Serial No. 327,831. 3 Claims. (Cl. 88—19.5.)



1. A film bearing a series of pictures provided with a number of holes near each edge for each picture one

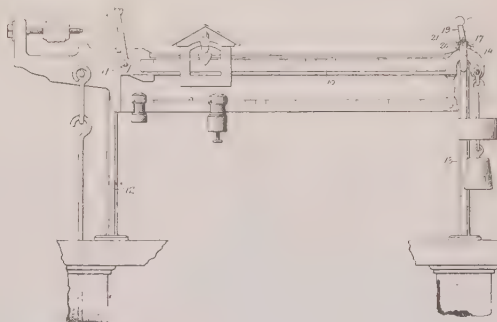
of which is larger than the others in a direction transverse to the length of the film but of the same dimensions in the longitudinal direction of the film.

1,423,771. PNEUMATIC-TIRE CASING. NELSON W. MCLEOD, New York, N. Y. Filed Jan. 15, 1920. Serial No. 351,712. 3 Claims. (Cl. 152—13.)



1. A pneumatic tire casing having a woven fabric strip extending lengthwise of the tread with the threads of the fabric diagonally crossing the center line of the tread and anchored at the beads, the weave of the fabric being sufficiently loose at the tread to permit the threads to come together and fill the space at the bead without material flattening or compacting.

1,423,772. AUTOMATIC LATCH FOR SCALE BEAMS. JOSEPH J. MAGRADY, Chicago, Ill. Filed Dec. 12, 1921. Serial No. 521,807. 4 Claims. (Cl. 265—55.)

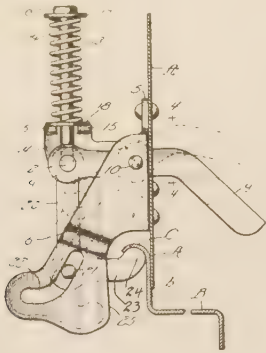


1. The combination with a scale beam, of a latch member supported adjacent thereto, having means engageable by the scale beam to automatically shift the latch member into effective position when the scale beam rises.

1,423,773. FASTENING DEVICE FOR AUTOMOBILE HOODS. FRED MATHEWS, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,646. 3 Claims. (Cl. 292—113.)

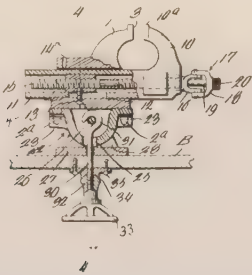
1. The combination with a section of the hood of an automobile, and the body part thereof, of a handle having a fixed pivot connected to the inside of said section, a vertically reciprocal L-shaped latch, pivotally connected to the inner end of said handle, lugs projecting from the inner side of said section having slots extending at an angle to the direction of length of the vertical portion

of said latch, and pivotal members projecting from the angle of said latch that extend into said slots, and direct



the movement of said latch to lock with said body part in one position and unlock therefrom in another position.

1,423,774. VISE. JOHN J. MOORE, Batavia, N. Y. Filed Mar. 11, 1920. Serial No. 364,956. 10 Claims. (Cl. 81—41.)



1. The combination with a vise having a bearing surface; of a saddle upon which the vise is mounted, said saddle having a pair of convex opposed bearing surfaces arranged angularly relative to one another, a base and said vise having counterpart bearing surfaces to co-operate with the bearing surfaces of said saddle, and means for retaining the vise and saddle in any adjusted position.

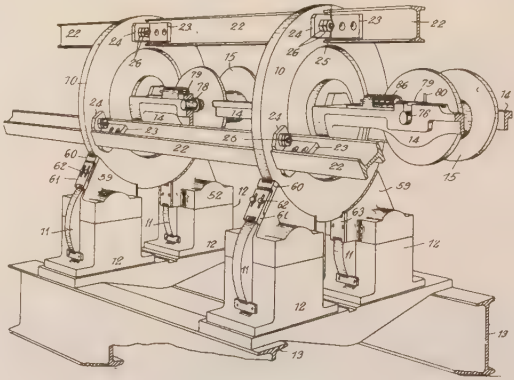
1,423,775. SPADE. EMIL W. MUNDT, Bernardsville, N. J. Filed May 24, 1920. Serial No. 383,786. 1 Claim. (Cl. 294—60.)



A spade, comprising the blade having its upper edge cut away at a point intermediate the side edges of the

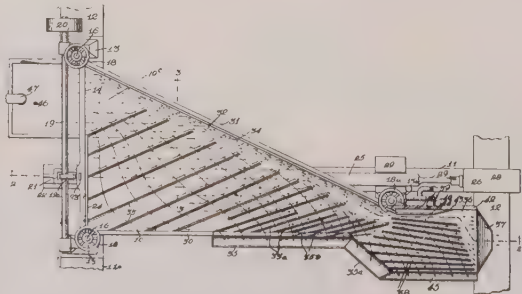
blade to form a recess, the remaining portions of the upper edge of the blade being curved and bent at right angles, and said bent portion again bent upon itself to define a curved, heel engaging reinforced upper edge for the blade, a pair of concave plates applied, one to each side of the blade with their concave sides directed toward each other and in registration with the recess, and a handle entering said recess and the space between said concave plates.

1,423,776. STRANDING MACHINE. MAX MORRISON, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Aug. 2, 1921. Serial No. 489,322. 11 Claims. (Cl. 117—48.)



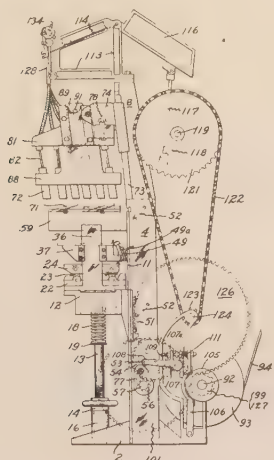
1. In a machine of the class described, a flyer including at least three cradle supporting discs joined to each other by discontinuous connecting members so as to permit the removal of one or more of the discs for replacement or repair without the necessity of dismantling the entire flyer.

1,423,777. CONCENTRATING TABLE AND METHOD. VICTOR F. NEWMAN and MERTON W. LOOMIS, Red Cliff, Colo. Filed Nov. 23, 1920. Serial No. 426,055. 36 Claims. (Cl. 83—88.)



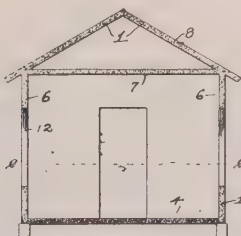
1. In a concentrating apparatus, means to stratify the material without wash water, and clarifying means by which the stratified material is received from the first means.

1,423,778. BOX-NAILING MACHINE. ELMER C. NORTHROP, San Francisco, Calif. Filed Nov. 11, 1919. Serial No. 337,245. 10 Claims. (Cl. 4—15.)



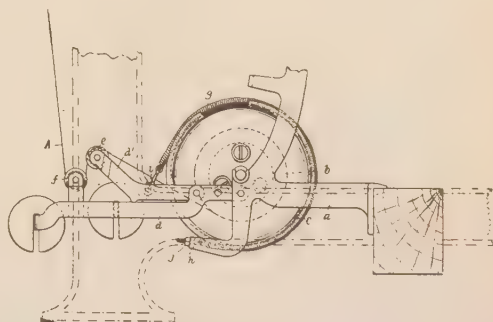
7. In a box nailing machine, a table, a pair of posts adjustably spaced on said table, a ledge slidably mounted on each post, means for vertically adjusting the ledge upon the post, means for supporting the box slidably mounted on said ledges, a lever pivoted on each ledge operatively engaging the supporting means thereon, means connecting said levers for unifying their operation, a spring connected to each supporting means for extending it into operative position, and automatically operated means for actuating said levers to retract said supporting means into inoperative positions.

1,423,779. CONCRETE BUILDING STRUCTURE. JAMES PARTEE, Santa Cruz, Calif. Filed Jan. 25, 1921. Serial No. 439,821. 1 Claim. (Cl. 72—1.)



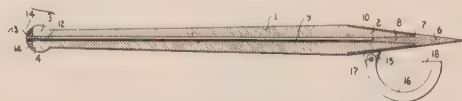
A concrete structure comprising a metallic frame work, reinforcing wires arranged in net formation so that its members are substantially parallel to the members of the frame work and a metallic reticulum stretched between adjacent members of the frame work allowing door and window openings to be cut into the same, concrete applied to said reticulum and embedding the reinforcing wires to form the walls, floor and roof of the structure, and door and window frames molded from concrete and secured in the openings provided therefor to receive suitable door and window casings.

1,423,780. FRICTION BAND FOR LET-OFF MECHANISM. CORNELIUS H. SLINGER, Hawthorne, N. J. Filed Oct. 2, 1920. Serial No. 414,319. 3 Claims. (Cl. 188—259.)



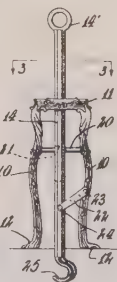
3. A friction band for a let-off mechanism of substantially the kind described consisting of a flexible helix of hard material having its coils each immovable longitudinally of the helix.

1,423,781. UNBREAKABLE CANT HOOK. JOHN WILLIAM STOLLE, Ashland, Me., assignor of one-third to Frank F. Stolle, Redding, Conn. Filed Oct. 10, 1921. Serial No. 506,906. 6 Claims. (Cl. 294—17.)



1. In a cant hook employing a handle with a pick and a pivoted hook, a reinforcing rod passed longitudinally through the handle and formed integral with the pick, said rod being held from movement longitudinally of the handle.

1,423,782. SHOE-BUTTONING DEVICE. JOSEPH SZIGETHY, Himlerville, Ky. Filed Apr. 15, 1922. Serial No. 552,954. 5 Claims. (Cl. 24—40.)

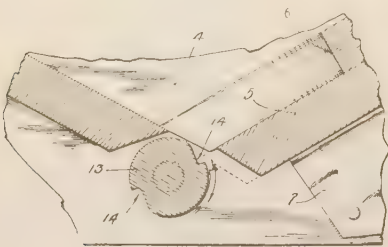


1. A button hook comprising a U-shaped frame, a bar arranged for swinging and sliding movement in said frame, and a compound hook member on said bar.

1,423,783. FEED ROLLER. PATRICK H. VAUGHN, Morris, Minn. Filed Dec. 20, 1919. Serial No. 346,326. 4 Claims. (Cl. 83—44.)

1. In a grain feeding device comprising a hopper having converging sides with an opening therebetween at their lower and adjacent ends, a feed roller having a smooth feeding surface interrupted by spaced pockets therein

comprising a radial side and a side extending substantially normal thereto rearwardly to the smooth surface, the ends of the hopper sides being beveled backwardly at an acute angle to their inside surface and the roller being disposed



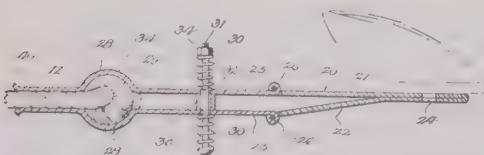
therebetween to leave a constant open space between the same and the smooth surface of the roller through which the material is fed which space is enlarged when the pockets come into alinement with the edges of the hopper sides.

1,423,784. HINGE CHECK. GEORGE VUILLE, Shelby, Ohio. Filed Mar. 2, 1921. Serial No. 449,024. 8 Claims. (Cl. 16—55.)



2. A hinge check comprising, a barrel, a rotatable cam and a reciprocating cam sustained on the barrel, a fluid container within the barrel, cylinders sustained within the container, ports and channels formed in the cylinders at and above the lower ends of the latter, pistons working within the cylinders, a plunger exteriorly of the container and operatively connected to the pistons, a spring for urging the plunger downwardly, and a pin carried by the plunger and operatively connected to the reciprocating cam in a manner to urge the cam downwardly with respect to the rotatable cam.

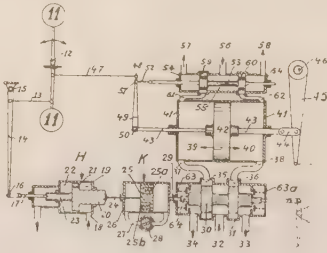
1,423,785. TRACTOR COUPLING. ADOLPH WILDE, Bellflower, Ill. Filed Apr. 1, 1922. Serial No. 548,779. 3 Claims. (Cl. 24—115.)



1. A plow rope coupling device for tractors comprising a bracket, a pair of arms horizontally hinged to said bracket and having their intermediate portions formed

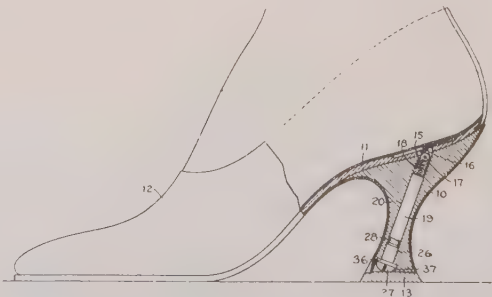
with sockets adapted for the reception of the knot formed on one end of the plow rope, said arms being provided with aligned openings, a bolt passed through said openings, coil springs mounted on said bolt on opposite sides of said arms and constituting a means to urge the arms together whereby to securely engage the knot on the rope, and a nut threaded on said bolt and constituting a means whereby to regulate the tension of said springs.

1,423,786. SERVO-MOTOR-CONTROLLING MECHANISM. HEINRICH ZOELLY and ANTON GAGG, Zurich, Switzerland. Filed Mar. 16, 1921. Serial No. 452,736. 6 Claims. (Cl. 114—126.)



1. A governing device for a servomotor adapted to regulate working conditions of a contrivance, comprising an auxiliary organ the position of which is dependent on the working conditions to be regulated, a controlling member for the servomotor, means operatively connecting said controlling member to said auxiliary organ and adapted to effect a displacement of said controlling member out of its mid position as soon as the velocity with which the auxiliary organ is moved in one or the other direction exceeds a certain limit and being further adapted to keep said controlling member out of its mid position as long as said velocity is exceeded, and means adapted to return said controlling member to its mid position when said velocity limit is no longer exceeded.

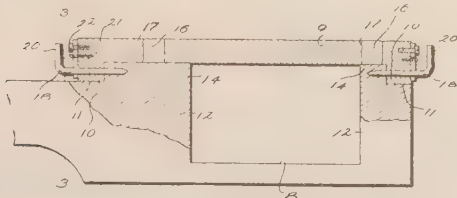
1,423,787. HEEL FASTENER. LESTER CERF, Brooklyn, N. Y. Filed Dec. 22, 1920. Serial No. 432,527. 1 Claim. (Cl. 36—42.)



Means for detachably securing heels to footwear, said means comprising a plate adapted to engage the inner face of the sole of the footwear, a lug carried by said plate and adapted to project through the sole of the footwear, a screw-threaded member pivotally secured to said lug, a second screw-threaded member circular in cross-sectional form and adapted to receive the first-mentioned screw-threaded member, and means for securing said last-mentioned screw-threaded member in the heel of the footwear, said securing means comprising a hub member having a reduced screw-threaded extremity provided with oppositely disposed grooves, a U-shaped wire adapted to enclose the end of said reduced extremity and

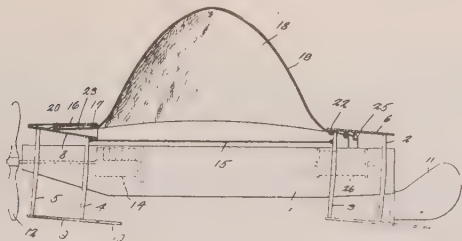
lie in said grooves, and a removable cap having a screw-threaded recess adapted to receive the reduced screw-threaded extremity of the hub member to secure said U-shaped wire therein in such a manner as to permit of its free ends engaging the internal threads of the circular screw-threaded member, as and for the purpose set forth.

1,423,788. CONNECTING ROD. FRANK ALVIN DREHER, Dover, Ohio. Filed Sept. 19, 1921. Serial No. 501,627. 5 Claims. (Cl. 287—93.)



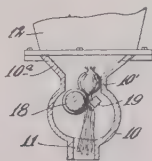
1. A connecting rod comprising a head having an opening and end walls at the ends of the opening, a retaining strap extending over said opening and having its end portions provided with lugs engaging the end walls of said opening, said lugs and the end walls of said opening being provided with aligned openings, locking pins extending through said aligned openings and having notches, and springs connected to said strap and engaged in said notches whereby to prevent the accidental withdrawal of said pins.

1,423,789. ATTACHMENT FOR AEROPLANES. ANTON F. ERICKSON, Phillipsburg, Pa. Filed Oct. 25, 1920. Serial No. 419,335. 3 Claims. (Cl. 244—21.)



1. In a device of the class described, an aeroplane; a curtain connected at one end to the aeroplane, the other end of the curtain being formed into a roll; a flexible element connected to the last specified end of the curtain and rolled in with the curtain; a drum journaled on the aeroplane, the flexible element being connected to the drum; means for driving the drum; and mechanism under the control of an operator for rendering the drum responsive to said means, thereby to effect an unrolling of the curtain.

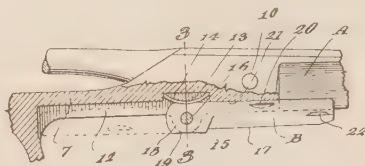
1,423,790. VEGETABLE-STEM REMOVER AND CRUSHER. ALEXANDER FLIS, Milwaukee, Wis. Filed Mar. 20, 1922. Serial No. 544,985. 8 Claims. (Cl. 146—5.)



1. In a machine of the class described, a screw, a cutter member extending along adjacent said screw, and

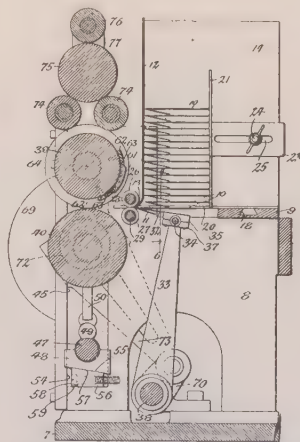
means for rotating said screw and cutter member in opposite directions, said cutter member being in the form of a bar of polygonal cross section.

1,423,791. STITCH CLIPPER FOR SCISSORS. CARY FRANCISCO, Porterville, Calif. Filed June 22, 1920. Serial No. 390,757. 2 Claims. (Cl. 30—13.)



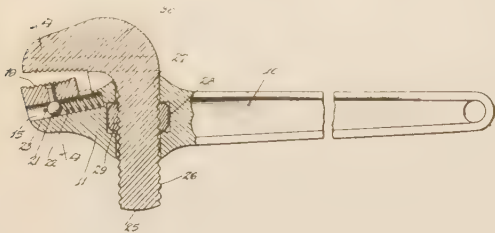
1. In combination, a pair of scissors having a longi-tudinally extending groove formed in the outer edge of one shank of one of its blades, a pair of depending ears formed on said shank intermediate the terminals of the groove, the inner wall of said groove having an inwardly extending notch positioned directly inwardly of said ears, a knife blade, a pivot pin connecting said knife blade to said ears, the shank of said knife blade having its edges arranged in parallel relation and flattened to form bearing bases, and an arcuate leaf spring having its terminals fitted in the opposite corners of said recessed portion and arranged to engage the flattened faces of the shank of the knife.

1,423,792. PRINTING PRESS. EDWARD J. COWDY, Buffalo, N. Y. Filed May 22, 1919. Serial No. 298,889. 1 Claim. (Cl. 101—232.)



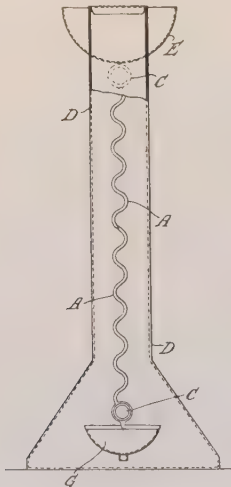
In a printing press, a printing roller journaled in normally fixed bearings, an impression roller co-operating with said printing roller and journaled in bearings which are movable toward and from the bearings of the printing roller, co-operating gear wheels connected with said printing and impression rollers and adapted to be engaged and disengaged upon moving said impression roller toward and from the printing roller and an article feed mechanism for delivering articles successively to said printing and impression rollers including a pair of co-operating feed rollers adapted to feed articles from a magazine to said printing and impression rollers, a pair of inter-meshing gear wheels connected with said feed rollers, an intermediate gear wheel meshing with the gear wheel of one of said feed rollers and also with the gear wheel of said impression roller, and means for feeding the articles successively to said feed rollers and operating in time with said impression roller.

1,423,793. PIPE WRENCH. PAUL G. GREEN, Marshall, Mich. Filed Oct. 6, 1921. Serial No. 505,846. 2 Claims. (Cl. 81—165.)



1. In a wrench having a handle and a pair of gripping jaws extending approximately in longitudinal direction of said handle and with their gripping faces at a slight inclination to each other; one of said jaws being rigidly connected with said handle and the other jaw having transverse adjustment therewith, an element mounted to slide upon one of said jaws in parallel direction with the gripping side thereof and provided with a gripping surface, a cylindrical recess provided in said last named jaw, a compression spring lodged in said recess, a head on said element fitting said recess and abutting against said spring.

1,423,794. HEAT-EXCHANGE DEVICE FOR TREATING MILK, WORTS, AND THE LIKE. MAX GRUBENMANN, Zurich, Switzerland, assignor to Aluminum-Schweisswerk A.-G., Schlieren, Switzerland. Filed July 5, 1921. Serial No. 482,511. 1 Claim. (Cl. 257—187.)

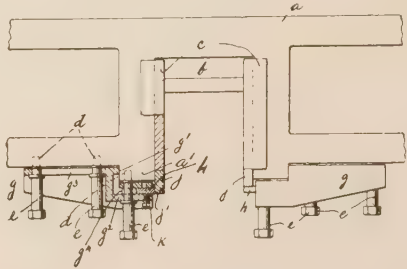


In a heat exchange device, the combination of a pair of corrugated metal sheets, wires of the same metal fitting between the corrugations at opposite edges of the sheets, the sheets and the wires being welded together, and pipes welded to the other edges of the sheets and having in them orifices communicating with the space between the sheets.

1,423,795. TOOL FOR FACILITATING THE ADJUSTMENT OF THE DRIVING SHOES OF LOCOMOTIVES. CARL GUGGENBUEHLER, Newark, N. J. Filed Sept. 27, 1920. Serial No. 413,205. 1 Claim. (Cl. 29—84.)

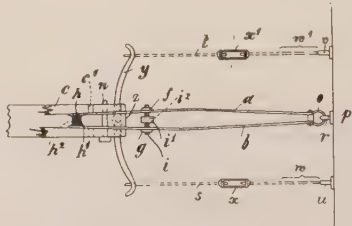
A tool for facilitating the adjustment of the driving shoes of locomotives, said tool including a block having an offset portion to conform with and bear against the

lower surface of the bearing frame, and which has openings for the free passage of the bolts projecting from the said frame, a longitudinally slidable member mounted in



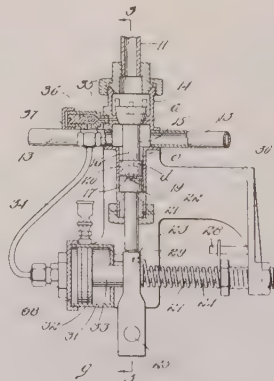
said offset portion, a vertical member removably engaged in said slidable member and serving to engage the lower edge of a driving shoe, and means for temporarily clamping said tool to the bearing frame.

1,423,796. CAR COUPLING. FRIEDRICH WILHELM HERMANN HAMANN, Hamburg, Germany. Filed Dec. 14, 1920. Serial No. 430,745. 2 Claims. (Cl. 280—33.44.)



1. An adjustable car coupling comprising two coupler rods connected with one another at one end, the other end being adapted to converge at their outer surfaces adjustably at different angles, right and left handed screws threaded into the coupler rods at their free ends adapted to vary the angle, at which these ends of the rods converge, central heads on the right and left handed screws.

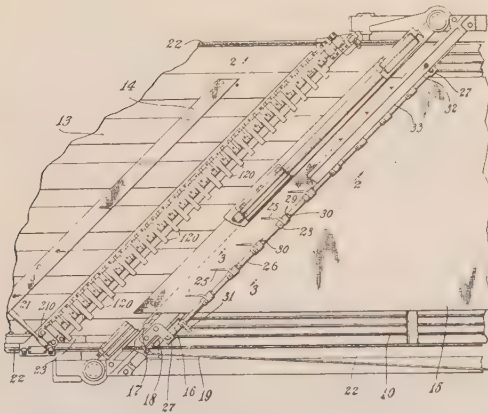
1,423,797. DRIFTING VALVE. JOHN H. HANLON, Somerville, Mass. Filed Oct. 24, 1917. Serial No. 198,217. 12 Claims. (Cl. 121—137.)



1. In a device of the character described, a casing containing a main valve, a main valve, connections from the boiler to the casing and from the casing to the cylinders of the locomotive and connections being controlled by

said main valve, a trip cylinder operatively connected with said main valve, steam connections from the main valve to the trip cylinder and throttle operated means for opening the main valve by the closing movement of the throttle.

1,423,798. FABRIC-CUTTING APPARATUS. JAMES F. HENNESSY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1920. Serial No. 353,915. 8 Claims. (Cl. 164—48.)



1. In sheet-cutting apparatus, the combination of intermittently-acting sheet-feeding grippers, means for severing transverse strips from the end of the sheet, and sheet-recoil arresting means comprising a transverse series of sheet-operated, independently pivoted automatic checking devices individually operative to permit free passage of the sheet during its feeding movement and positively to grip the same due to an initial retracting movement thereof when the feeding grippers are released.

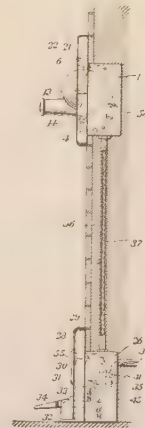
1,423,799. METHOD OF MAKING DICYANDIAMIDE. HARRY C. HETHERINGTON and JOSEPH M. BRAHAM, Washington, D. C. Filed June 28, 1921. Serial No. 481,058. 7 Claims. (Cl. 23—21.)

5. A process for the preparation of dicyandiamide, including extracting lime-nitrogen with water, filtering the extract, adding to the filtered extract sufficient sulphuric acid to combine with one-half the calcium in the extract, removing the calcium sulphate, adding to the remaining solution sulphuric acid in finely divided streams, removing the resulting calcium sulphate and recovering the dicyandiamide.

1,423,800. DRYING APPARATUS. RHUEL BRYANT HIBBARD, DENTON J. WATROUS, and JOHN G. BASSETTE, Groton, N. Y., assignors to Airdry Corporation, Groton, N. Y., a Corporation of New York. Filed Feb. 18, 1921. Serial No. 446,113. 22 Claims. (Cl. 34—26.)

1. A drying apparatus comprising a motor and heater box adapted to be embedded in a wall, a detachable face plate attached to said box and provided with a vertical slot, means for rotatably supporting a motor and heater element in said box, said element being provided with a discharge nozzle extending forwardly through the slot in said face plate and adapted to be moved up and down in said slot to position the nozzle, a switch box adapted to be embedded in a wall, a face plate detachably secured at the front of said switch box, a switch-operating element

mounted on said face plate, a circuit-controlling switch within the switch box and connected to the operating ele-



ment, and circuit wires connected to the switch mechanism in the switch box and to the motor and heater element in the motor and heater box.

1,423,801. SPINNING, DOUBLING, AND TWISTING MACHINE. ROBERT E. HINES, New York, N. Y., assignor to New Jersey Silk Machinery Company, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 9, 1921. Serial No. 490,868. 7 Claims. (Cl. 117—28.)

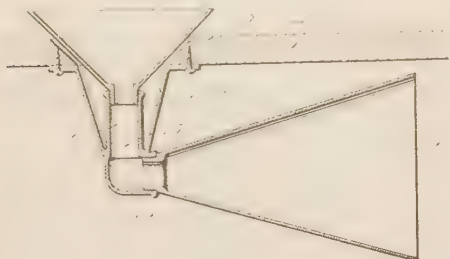


1. In combination, a spindle, a support therefor, a pair of spindles, a pair of supports for said pair of spindles pivoted concentrically with the first support, a driving belt arranged between the first spindle and the pair of spindles, and means to move the pair of supports back and forth together in reverse directions to cause the spindles to grip the belt or clear the same.

1,423,802. EAR TRUMPET FOR TRUCK DRIVERS. ERNEST W. HOFSTATTER, Nyack, N. Y. Filed Oct. 14, 1920. Serial No. 416,823. 2 Claims. (Cl. 181—27.)

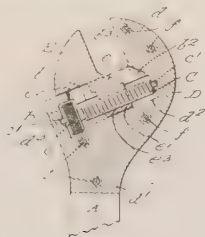
1. An ear trumpet for truck drivers comprising a sound receiving horn, a sound emitting horn, a hollow elbow to whose ends said horns are secured with their discharge

ends at right angles to each other, and means carried by said elbow for attaching the entire device to a motor truck



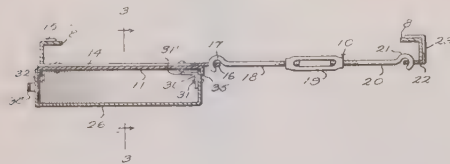
with said receiving horn opening rearwardly outside of the truck and said emitting horn opening toward one of the driver's ears.

1,423,803. WRENCH. GEORGE D. ILLIG, Depew, N. Y. Filed Aug. 9, 1921. Serial No. 490,875. 8 Claims. (Cl. 81—165.)



1. In a wrench, the combination of two sheet metal portions secured together forming the handle and head of the wrench, a movable jaw, an adjusting nut, a metal insert member arranged between said sheet metal portions and forming therewith guide means for said movable jaw, and a bearing for said adjusting screw in said metal insert member.

1,423,804. DRAWER ATTACHMENT FOR BEDS. CARL KONTOROWITZ, Rochester, N. Y. Filed July 20, 1921. Serial No. 486,161. 4 Claims. (Cl. 5—41.)

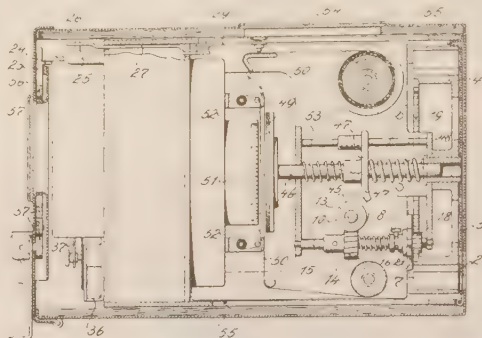


1. A drawer attachment for a bed having side rails, comprising a top plate arranged beneath the bed and having a pair of spaced parallel strips provided with L-shaped attaching brackets engaging one of the side rails, rods connected to said strips and having attaching brackets engaged with the other side rail, and a drawer slidably carried by said top plate.

1,423,805. TIME RECORDER. GUSTAV KRUM, Duisburg-Beeck, Germany. Filed June 30, 1920. Serial No. 393,215. 4 Claims. (Cl. 234—36.)

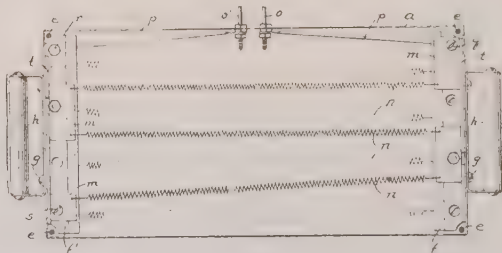
1. Time recorder of the character set forth, comprising in combination with an enclosing case and a lid therefor, a

rotary drum, a series of pockets forming the rim of said drum, means normally preventing rotation of said pocketed drum, means adapted to be inserted into said pockets for temporarily releasing said drum and means for advancing the latter during such temporary release the width of a



pocket, a clock work, time recording means driven by said clock work and actuated by said drum advancing means during the rotary advance of said drum, time record canceling means operating on unauthorized opening of said case lid, and means for arresting said clock work upon the recorder being repeatedly shaken.

1,423,806. ELECTRIC HEATING DEVICE. WILLIAM F. LEHZELTER, Elizabethtown, Pa., assignor, by mesne assignments, to Earl M. Miller, Elizabethtown, Pa. Filed Sept. 3, 1921. Serial No. 498,262. 5 Claims. (Cl. 219—19.)

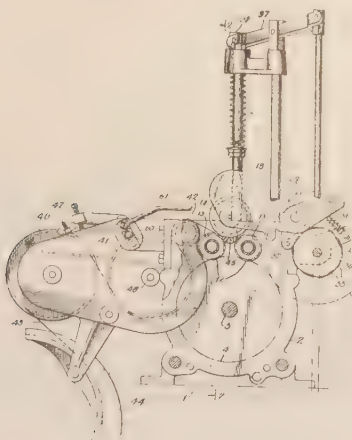


1. An electric heating device comprising, in combination, a body, oppositely disposed supports secured within the body, bus bars secured to the top and bottom of said supports, resistance elements extending between said supports in contact with said bus bars on the top and bottom of said supports respectively, and means serving to secure a bus bar on the top and bottom of one of said supports and adapted to transmit current through said support from one of said last mentioned bus bars to the other.

1,423,807. BALL-WINDING MACHINE. EVARTS G. LOOMIS, Newark, N. J. Filed Jan. 6, 1921. Serial No. 435,430. 19 Claims. (Cl. 242—3.)

6. In a machine of the class described, the combination of means for driving a ball or core from a plurality of points to rotate the same about a horizontal axis, means

for driving the ball or core from a plurality of other points to rotate the same about a vertical axis, and controlling



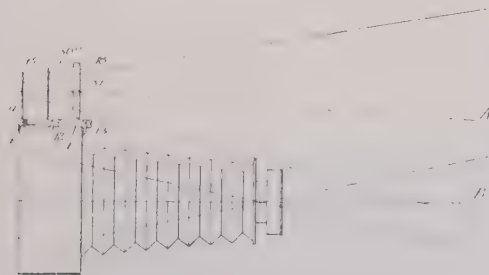
means for the ball driving mechanism to vary the rate and direction of rotation of the ball or core about the vertical axis with respect to its rotation about a horizontal axis.

1,423,808. MANIFOLDING SHEET. FRANK R. MCCLUSKEY, Canfield, Ohio. Filed May 4, 1920. Serial No. 378,855. 4 Claims. (Cl. 282-27.)



1. A manifold sheet divided by lines of weakening into a plurality of substantially equal sections, a line parallel with the bottom of said sheet and located through all of said sections, said sheet being provided with printed forms above said line on alternate sections on the obverse side, and on the remaining sections on the reverse side of the sheet, the first and second sections having similar printed forms below said line and arranged to receive a carbon sheet therebetween, the remaining sections having different printed forms below said line and arranged to be filled in at different later intervals, one of the intermediate sections having a printed form upon each side of the sheet, the remainder of said sections being provided with carbon surfaces upon their backs extending down to said line, whereby at a single writing the first and second sections are filled out above and below said line and the remaining sections are filled out above the line only.

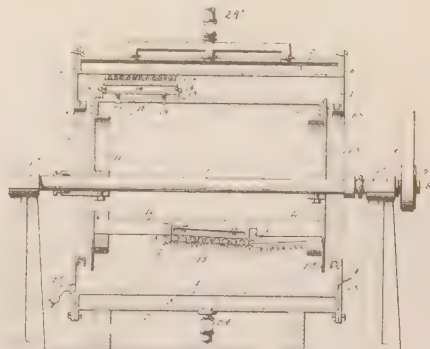
1,423,809. PHOTOGRAPHIC-VIEW FINDER. PAUL J. MARKS and WALTER O. MARKS, Rochester, N. Y. Filed Dec. 12, 1921. Serial No. 521,638. 16 Claims. (Cl. 33-64.)



1. In a finder, the combination of a base member, a clamping member thereon, a supporting member slidably

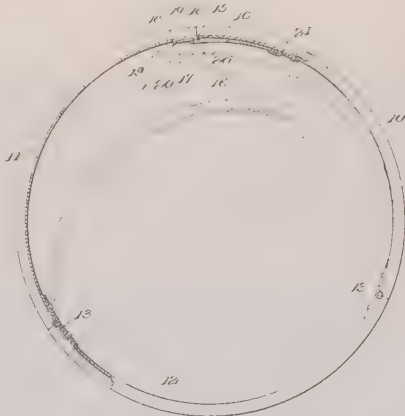
mounted on said base member, a plurality of sighting devices supported thereon, a clamping member on said supporting member, and resilient means for moving said clamping members into engagement with a camera.

1,423,810. METHOD OF PRODUCING A CONDENSED-MILK PRODUCT. HOWARD S. MELLOTT, Morenci, Mich., assignor to The By-Products Recovery Co., Toledo, Ohio, a Corporation of Ohio. Filed Apr. 11, 1916. Serial No. 90,393. 6 Claims. (Cl. 127-9.)



1. The method of treating milk to produce a condensed product consisting in subjecting the milk for a short period of time to a disrupting temperature, permitting the generated vapors to escape during the treatment, and finally subjecting the product while in its heated state to the action of a cooling agent.

1,423,811. COLLAPSIBLE RIM. WILLIAM E. MILLER, Savannah, Ga. Filed Apr. 1, 1919. Serial No. 286,711. 7 Claims. (Cl. 301-33.)

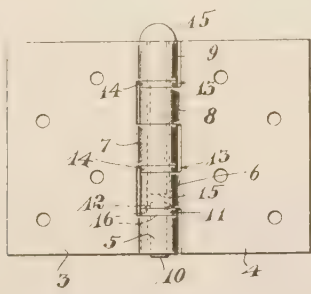


1. A collapsible wheel rim including a split rim body provided in one end portion thereof with an opening, a connecting lever swingingly mounted upon the opposite end portion of said rim body and movable to engage in said opening and connect the ends of the rim body, overlying the outer face of said first-mentioned end portion of the rim body and confronting the inner face of said second-mentioned end portion of the rim body, and means carried by the lever to oppose inward movement of the first-mentioned rim end away from the lever.

1,423,812. HINGE. JOHN R. MOODY, Los Angeles, Calif. Filed Oct. 24, 1921. Serial No. 509,993. 7 Claims. (Cl. 16-168.)

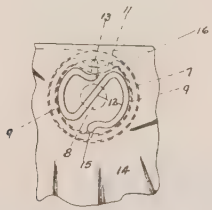
7. In a hinge, two oppositely arranged hinge members, each of the hinge members having knuckles normally spaced

when in engagement, a short engaging pin fitting into one knuckle of the one hinge member and having a shouldered portion to rest on the first-named knuckle and having furthermore a short engaging end projecting be-



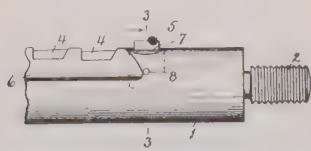
yond the shouldered portion for preliminary and slight engagement with a knuckle of the second hinge member, washers inserted in the space between the several knuckles, and another pin to fit through the remaining portion of the knuckles of the two hinge members.

1,423,813. GARMENT FASTENER. ROBERT J. MULVEY, Chicago, Ill. Filed July 12, 1920. Serial No. 395,598. 5 Claims. (Cl. 24—88.)



1. A device of the class described comprising a body; a securing member therefor in the form of a wire having one end secured in operative relation to said body, the free portion of said wire being bent laterally into tortuous form to provide a large engaging surface; and means at the free end of said wire for detachably securing the same to said body, substantially as described.

1,423,814. BROACH. JOHN OAKLEY, Springfield, Mass. Original application filed June 25, 1918, Serial No. 241,748. Divided and this application filed Oct. 6, 1920. Serial No. 415,010. 8 Claims. (Cl. 90—33.)

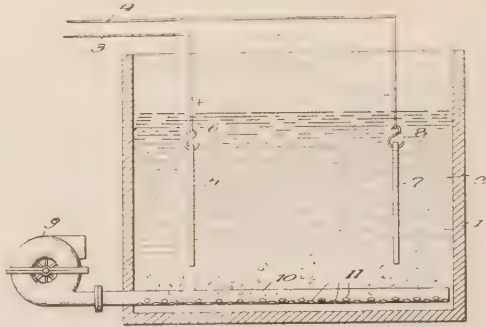


1. A broach comprising a shank provided with a row of teeth, and further provided with a detachable guiding member in advance of said teeth.

1,423,815. ELECTROPLATING PROCESS. NELSON V. PARK, Niles, Mich. Filed July 6, 1921. Serial No. 482,769. 2 Claims. (Cl. 204—11.)

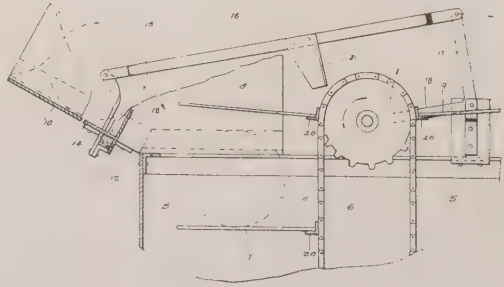
1. The herein described process of electroplating which consists in introducing downwardly directed currents of

air differing in pressure by means of a nozzle having openings of various diameters therein into an electrolyte containing cell having an anode and a cathode element im-



mersed therein whereby the currents of air will agitate the electrolyte and effect the continuous washing of metal from the anode for transfer to the cathode.

1,423,816. CAN-WASHING MACHINE. WALTER H. PAULSON, Chicago, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Original application filed May 22, 1920, Serial No. 383,333. Divided and this application filed May 22, 1920. Serial No. 383,334. 4 Claims. (Cl. 198—26.)

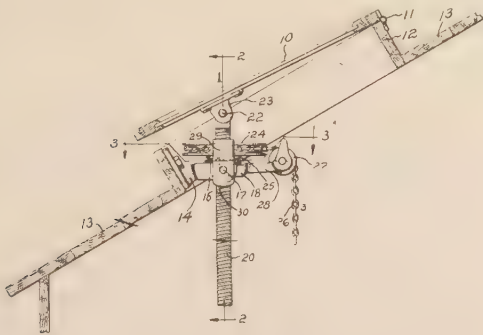


1. Apparatus of the class described comprising a conveyor; an inclined support leading to said conveyor; an oscillating shaft mounted under said support adjacent said conveyor; two stops mounted on said shaft at an angle to each other and operating within said support; and an operative connection between said conveyor and said shaft for oscillating the same, substantially as described.

1,423,817. SKYLIGHT LIFT. ADOLPH G. FITZ and OTTO X. SAUR, Bridgeport, Conn., assignors to Park City Cornice Works, Inc., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 17, 1921. Serial No. 452,912. 4 Claims. (Cl. 268—20.)

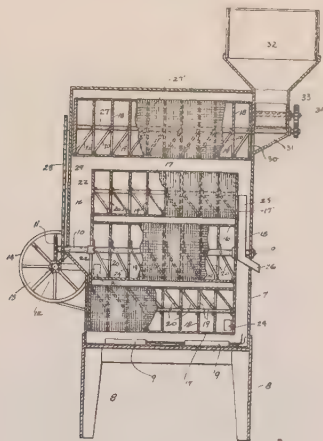
1. A closure device comprising a bracket having spaced arms provided with aligned recesses open at one side of the arms, a rocker pivotally mounted in said recesses, a lifting screw, a pulley carried by the rocker and having threaded engagement with said screw for moving the

latter, a flexible operating member cooperating with said pulley, a pair of guides for said operating member car-



ried by said rocker, and a locking member extending over the pulley and engaging under the arms of the bracket to prevent removal of the pulley and screw.

1,423,818. COFFEE ROASTER. NATHANIEL B. POST, Chicago, Ill. Filed Nov. 17, 1920, Serial No. 424,598. Renewed June 5, 1922. Serial No. 565,895. 11 Claims. (Cl. 34—5.)

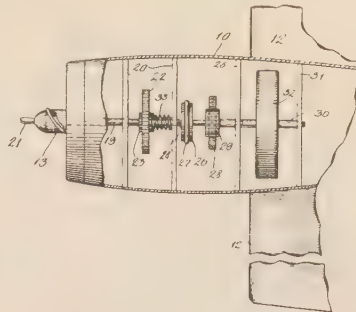


6. A roaster comprising a plurality of revolving roasting chambers provided with openings whereby the material is delivered from each chamber to the next successive chamber; a plurality of substantially transverse partitions in each of said chambers dividing the same into a plurality of chambers, each partition being provided with a transfer opening and an inclined deflector for transferring the material through each chamber in one direction, and through successive chambers in opposite directions; and means for heating said chambers, substantially as described.

1,423,819. TOY. JACOB SHAPIRO and HARRY SHAPIRO, New York, N. Y. Filed Apr. 14, 1920. Serial No. 373,691. 1 Claim. (Cl. 46—45.)

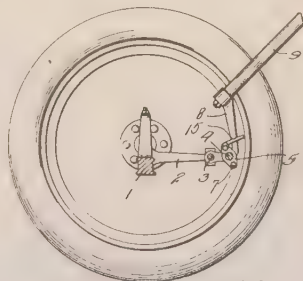
A toy having a shaped body, front and rear traction wheels supported therefrom, and a driving mechanism mounted in the forward portion of the toy and adapted to hold the latter well balanced, said driving mechanism comprising a main shaft, a counter-shaft, means for operating said main shaft, means for transmitting motion from said main shaft to said counter-shaft, resilient means disposed on said main shaft for disposing said transmission means in operative relation, an energizing shaft having an inertia wheel mounted thereon, means on said

counter shaft for driving said front traction wheels from said main shaft and means for transmitting motion from said counter shaft to said energizing shaft whereby the



operation of the main shaft simultaneously operates said inertia wheel and front traction wheels so that the latter are self-propelled when the toy is disposed for operation.

1,423,820. ANTILOCK DEVICE FOR STEERING GEARS. WILLIAM F. STAGGERS, Mannington, W. Va. Filed Aug. 15, 1921. Serial No. 492,421. 2 Claims. (Cl. 280—89.)



1. A device for preventing the steering wheel of an automobile of the type described from turning to a point likely to cause it to pass over a dead center, consisting of a stop frame having sides suitably spaced from the steering arm to limit its movement beyond a predetermined degree, said means being positioned on the cap of the ball socket which the steering arm engages.

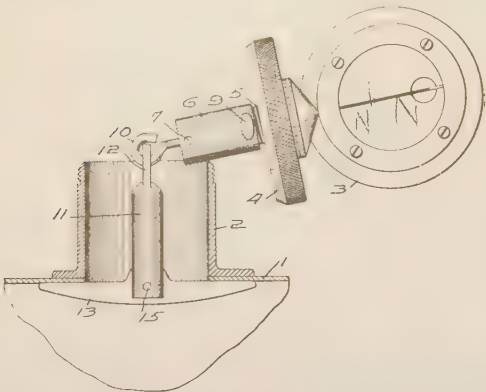
1,423,821. COATING OR SEALING COMPOSITION. MORTIMER I. STRAUSS, Cleveland, Ohio. Original application filed May 18, 1917, Serial No. 169,451. Divided and this application filed Jan. 31, 1921. Serial No. 441,511. 3 Claims. (Cl. 134—26.)

3. A composition of matter which is impervious to and unaffected by gasoline, oils and the like and which remains substantially permanently pliable or flexible when applied in coatings or layers, said composition comprising an alcoholic solution of the precipitated product of a caustic soda solution of shellac and sulphuric acid combined in homogeneous form with a fibrous inorganic body material.

1,423,822. MOTOR-METER LOCK. LEE L. WINTERS, Ann Arbor, Mich. Filed Dec. 13, 1920. Serial No. 430,133. 6 Claims. (Cl. 220—24.)

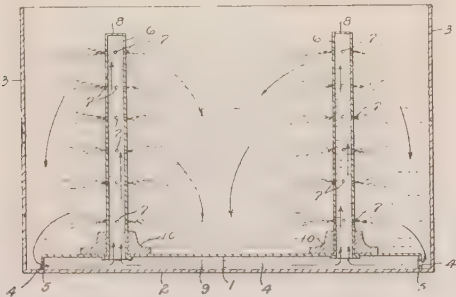
5. In an automobile motor meter lock, a shell adapted to be connected to the motor meter and to extend into the neck of the radiator of the automobile, and having slots located at the lower end of the shell and on opposite sides of the shell, a cross bar pivotally connected to the lower end of the shell and located in the slots, the cross bar having an ear extending into the shell and movable in the slots, the ear having a circular recess, a ball rota-

table in the shell in all directions and substantially fitting the shell and the recess and for locking the cross



bar from movements relative to the shell, the cross bar being pivoted to the shell at a point below the ear.

1,423,823. WASHBOILER ATTACHMENT. JOHN T. WOOD, East St. Louis, Ill. Filed Apr. 28, 1921. Serial No. 465,098. 1 Claim. (Cl. 68—30.)



A wash-boiler attachment, composed of a rectangular false-bottom member having a series of vertical perforated tubes rising from its upper surface, and provided with straight downwardly-extending outwardly-flared marginal flanges between the adjacent ends of which at each corner of said member are V-shaped water-inlet openings; and combined weights and braces surrounding the lower portions of said tubes and securely fastened to the said rectangular false-bottom member.

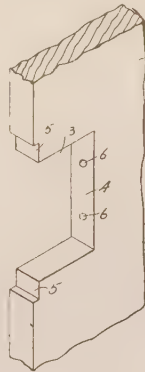
1,423,824. COP OR BOBBIN HOLDER. EDWARD ADELL, Orange, Mass., and CARL A. BRINK, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 13, 1920. Serial No. 409,898. 9 Claims. (Cl. 242—121.)



7. A cop- or bobbin-holder comprising a cylindrical sleeve having longitudinal slits forming ribs which are

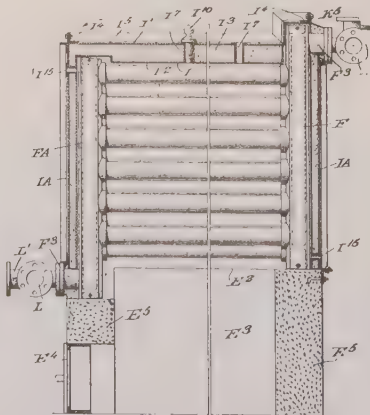
bowed outwardly to adapt them to act as spring elements to engage the interior of the cop-tube, and an inner tube arranged concentrically within the outer sleeve extending throughout its length and provided with an annular abutment adapted to serve as a stop-rest for the spring-members to limit the extent of their contraction to prevent impairment of their resiliency.

1,423,825. DOOR LOCK AND METHOD OF APPLYING THE SAME. WILLIAM ANDERSON, Newark, N. J. Filed May 19, 1921. Serial No. 470,877. 1 Claim. (Cl. 70—16.)



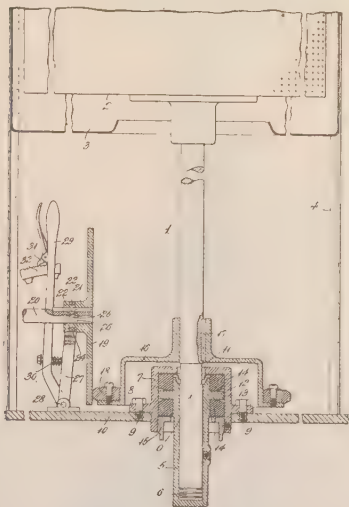
A door lock including a casing, a face plate carried thereby, anchoring pins projecting from the rear wall of said casing, in combination with a door recessed to receive said lock casing and face plate, and escutcheon plates disposed across said recess and secured to the door for enclosing the lock casing.

1,423,826. WASTE-HEAT ECONOMIZER. JOHN E. BELL, Brooklyn, N. Y. Filed Oct. 8, 1918. Serial No. 257,408. 5 Claims. (Cl. 122—421.)



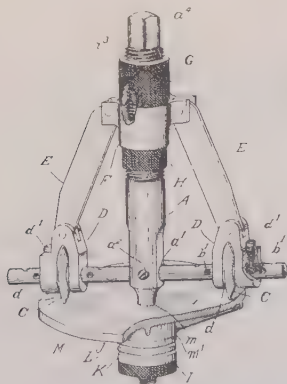
1. A horizontal economizer having side walls formed of long and narrow headers set vertically and in contact with each other to form solid unbroken side walls, in combination with vertical rows of horizontal water tubes connecting oppositely disposed vertical header so as to form with said headers a series of economizer sections, a heat insulating top wall supported on the tops of the vertical headers and means for supplying water to the headers on one side of each section and for carrying off the heated water from the opposite headers.

1,423,827. EXTRACTOR. DANA H. BENJAMIN, Cleveland Heights, and ARTHUR R. CURTIS, Cleveland, Ohio, assignors to Solomon D. Guggenheim, Cleveland Heights, Ohio. Filed June 8, 1918. Serial No. 238,928. 2 Claims. (Cl. 74—26.)



1. In an extractor, the combination of a stationary frame, an extractor spindle, cushioning devices between said spindle and frame adapted to permit and resiliently resist oscillation of said spindle about a center, said devices being disposed symmetrically around and above and below said center, a friction driven member carried by said spindle and rotatable upon a vertical axis and having a driving surface symmetrical with respect to a horizontal plane through said center, and a friction driving disc rotatable on a horizontal axis and contacting said driven member in said plane, whereby oscillation of said spindle about said center does not disturb the driving relation.

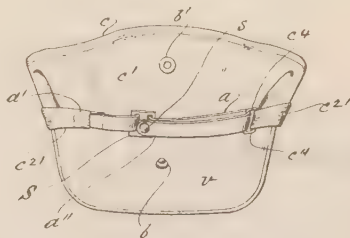
1,423,828. CIRCLE-CUTTING TOOL. MAURICE A. BUTTERFIELD, Lowell, Mass. Filed Feb. 9, 1921. Serial No. 443,660. 3 Claims. (Cl. 164—82.)



1. In a tool for cutting circular work from sheet material, the combination of a stock, cutters carried by said stock through a circle, by a single revolution of said stock, said stock being screw-threaded; a nut turning on

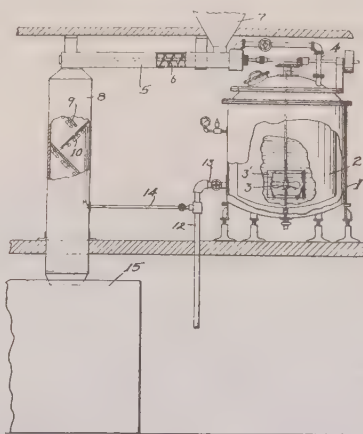
said stock, on the opposite side of said work, from said cutters, washers loosely surrounding said stock between said nut and said work, a ball-cage surrounding said stock between said washers, and anti-friction balls carried by said cage and pressing against said washers.

1,423,829. CAP. JULIUS CARLSON, Brooklyn, N. Y. Filed Dec. 17, 1921. Serial No. 523,128. 2 Claims. (Cl. 2—106.)



1. A cap of the character designated, formed with a crown band having its ends free and forming integral frontal flaps, and adjustable means connecting the otherwise free ends of said flaps, consisting of a copulative strap rigidly attached to the end of one flap, a loop on the end of the other flap, said copulative strap extending through said loop on the end of the other flap, and a slidable buckle on the main strand of said copulative strap, and snap button connective means for detachably securing the free end of said copulative strap to said slidable buckle, substantially in the manner and for the purpose described.

1,423,830. RICE-PRESERVATION PROCESS. SANDER IVER CHRISTENSEN, Willows, Calif. Filed Sept. 19, 1921. Serial No. 501,760. 2 Claims. (Cl. 99—5.)

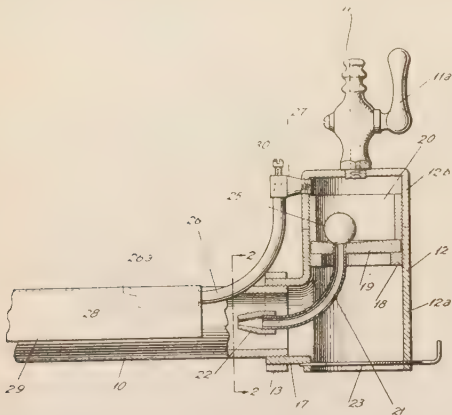


2. A process of treating rice which comprises agitating a body of rice, applying heat to a quantity of salt solution sufficient to cause it to steam, placing the rice in the steam from said solution, agitating the rice during the time it is passing through the steam ascending from said solution, and thereafter drying the steamed rice.

1,423,831. MEANS FOR CONTROLLING THE FLOW OF FLUIDS. CHARLES H. COCHRANE, New York, N. Y. Filed Mar. 17, 1921. Serial No. 453,007. 7 Claims. (Cl. 137—139.)

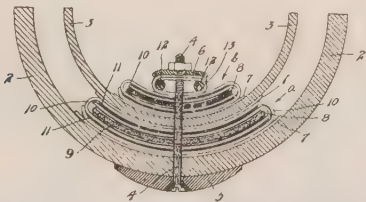
1. Apparatus for controlling the flow of fluids embody-

ing means controlled by the force of gravity when at rest and by vibratory movement imparted thereto when such



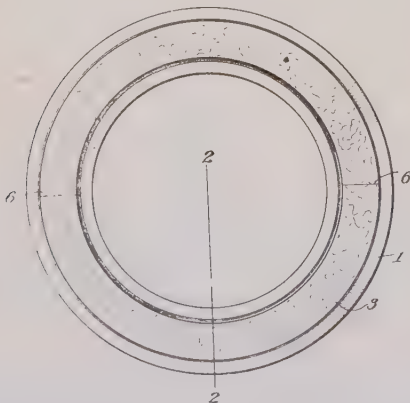
movement is sufficient to overcome the force of gravity by which it is normally controlled.

1,423,832. TONE MODIFIER FOR PHONOGRAPHS. FRED W. COOLEY, Minneapolis, Minn. Filed Apr. 4, 1921. Serial No. 458,432. 10 Claims. (Cl. 181—27.)



1. The combination with the tone arm of a sound reproducing machine, of concentric spaced tubes located where the sound waves will pass therethrough on their way from said tone arm into the sound chamber of said machine, and a connection between said tubes, said connection comprising a plurality of layers of yielding compressible material, at least one of the layers of material being of a different degree of compressibility than the other.

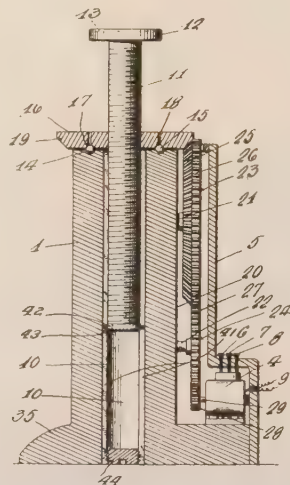
1,423,833. FASTENING MEANS AND METHOD OF APPLYING SAME. MAGRUDER CRAIGHEAD, Hartsdale, N. Y., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed Mar. 24, 1920. Serial No. 368,255. 2 Claims. (Cl. 192—107.)



1. The combination of a base member having a ring-shaped groove with one wall under-cut, a second member

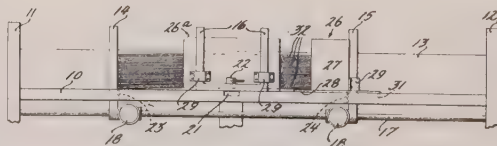
conforming in curvature to the groove, and of a cross section similar to that of the groove but of slightly less width and a key adapted to fill the space between one wall of the base member and the opposing wall of the second member when the second member rests on the bottom of said groove.

1,423,834. ELECTRIC POWER JACK. JOHN M. CRUM, Johnstown, Pa. Filed Oct. 20, 1921. Serial No. 509,094. 6 Claims. (Cl. 254—103.)



1. An electric power jack comprising a body portion, spaced laterally extending wing portions formed integral therewith, a jack screw operable in said body, a nut or follower carried by said screw means for preventing said screw from rotating, an electric motor positioned between said spaced wing portions, and means connecting said motor with said nut for operating the jack.

1,423,835. AUXILIARY SHEET GAUGE FOR PLATEN PRESSES. ABRAHAM DANZIGER, New York, N. Y. Filed Nov. 19, 1921. Serial No. 516,430. 7 Claims. (Cl. 271—61.)

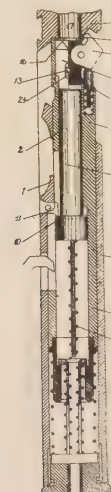


1. An auxiliary gauge of the character specified, adapted to rest on a sheet delivering platform of a printing press equipped with sheet positioning gauges, with said auxiliary gauge comprising a body portion, and means associated with said body portion to hold said body portion in effective relation with any one of said gauges and said platform.

1,423,836. SMALL ARM COMPRISING A STRIKER SLIDING IN A BREECH BOLT. JOSEPH DECLAYE, Liege, Belgium. Filed Sept. 9, 1920. Serial No. 409,174. 7 Claims. (Cl. 42—69.)

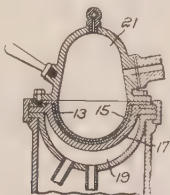
1. A small arm for rim fire cartridges, comprising a barrel, a receiver, a breech bolt, a striker sliding in said

breech bolt, a firing pin actuated by said striker, and means for limiting the displacement of said striker during



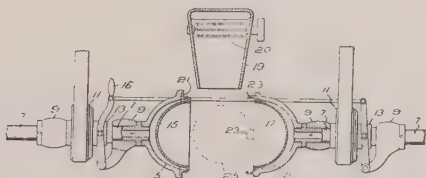
the firing before the latter has accomplished its full travel in the breech bolt.

- 1,423,837. BALL. ISAAC DE GOWIN, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed Apr. 23, 1920. Serial No. 376,165. 4 Claims. (Cl. 154-16.)



2. A ball comprising a center and molded hemispherical felt sections secured thereover.

- 1,423,838. METHOD AND APPARATUS FOR COVERING BALLS. ISAAC DE GOWIN, New Haven, Conn., assignor to The Seamless Rubber Company, Inc., New Haven, Conn., a Corporation of Massachusetts. Filed May 12, 1920. Serial No. 380,882. 7 Claims. (Cl. 154-16.)

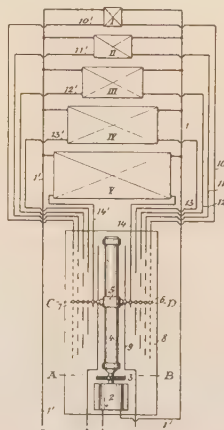


1. The method of covering balls comprising forming shell sections of felting fibers, supporting them externally, introducing a ball center between them and felting them about the same.

- 1,423,839. DEVICE FOR AUTOMATICALLY CONTROLLING THE OUTPUT OF ELECTRICAL PLANTS. MICHEL DOLOUKHANOFF, Charlottenburg, Germany. Filed Mar. 23, 1922. Serial No. 546,201. 5 Claims. (Cl. 171-119.)

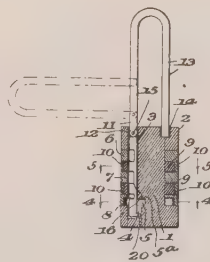
1. Apparatus for automatically controlling electric plants, comprising transformers of different capacities ar-

ranged in parallel; a measuring device in series with the secondary circuit of said transformers; a double switch, one switch element being in circuit with the primary circuit and the other switch element in circuit with the sec-



ondary circuit, said double switch comprising contacts in the path of the switch elements arranged to control the output from the transformers in any predetermined series and means operated by the measuring device for operating said switch in any predetermined series.

- 1,423,840. PERMUTATION PADLOCK. FREDERICK A. DURBIN, Evansville, Ind., assignor of one-half to Joseph F. Maday, Evansville, Ind. Filed May 18, 1921. Serial No. 470,635. 1 Claim. (Cl. 70-113.)

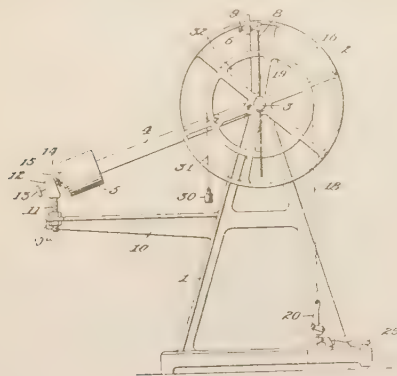


In a permutation padlock, the combination with a cylindrical body having enlarged heads at its ends and a longitudinally extending groove in its side, of a plurality of peripherally exposed annular tumblers each having an internal notch, said tumblers being rotatably mounted on said body between the heads thereof, and a shackle having a leg slidable in said groove and adapted to be locked by said tumblers, or released when their notches register with the groove aforesaid, said leg being provided with a lug at its inner end, there being provided in the body a pocket to loosely receive said lug and a shoulder overhanging said pocket, said pocket permitting the leg to be slid lengthwise of itself and the shoulder serving as a stop to engage the lug and prevent complete detachment of the shackle from the body, and peripherally exposed annular false tumblers associated with the locking tumblers but having no locking action on the shackle.

- 1,423,841. TEARING TESTER. ARMIN ELMENDORF, Madison, Wis. Filed Feb. 3, 1920. Serial No. 356,078. 7 Claims. (Cl. 265-17.)

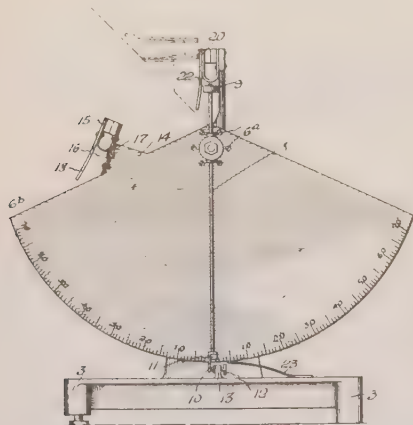
1. In a device of the kind described, means for testing the strength of material, comprising a wheel, a pendulum connected to said wheel, means for mounting the wheel to permit said wheel to turn and said pendulum to swing,

means adapted to hold the material to be tested, a connection between said wheel and said holding means, means to hold said pendulum means to release said pendulum allow-



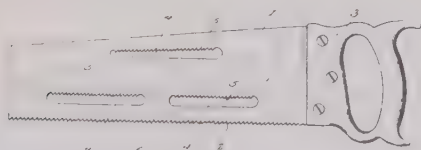
ing the movement of said pendulum to tear the material to be tested, and indicator means adapted to co-operate with said wheel.

1,423,842. TEARING TESTER. ARMIN ELMENDORF, Chicago, Ill. Continuation of application Serial No. 356,078, filed Feb. 3, 1920. This application filed Aug. 31, 1920. Serial No. 407,165. 6 Claims. (Cl. 265—17.)



1. In a testing device, a frame, a pendulum mounted to rotate thereon, said pendulum being calibrated, a clamp attached to said pendulum, a second clamp attached to said frame and adapted to cooperate with said first clamp to hold material to be tested, and a pointer frictionally mounted on the hub of said pendulum and cooperating with said pendulum to measure the work done in tearing the material.

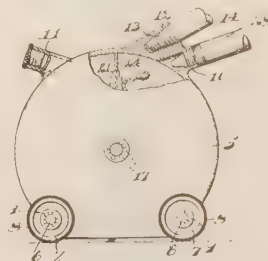
1,423,843. SAW. OLIVER D. ESHELMAN and WILLIAM F. BOAST, Casper, Wyo. Filed Jan. 17, 1921, Serial No. 437,803. Renewed June 9, 1922. Serial No. 567,192. 2 Claims. (Cl. 145—31.)



1. A saw blade provided with a plurality of slots disposed in staggered relation with respect to each other and

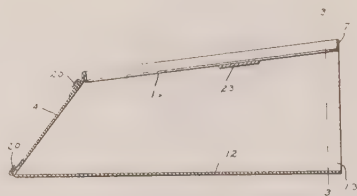
each provided along one edge with teeth pointing in the same direction as the normal cutting teeth and their cutting edges running parallel with that of the normal cutting teeth.

1,423,844. VEHICLE-WASHING MACHINE. MARTIN J. FENELON, Chicago, Ill. Filed Nov. 17, 1919. Serial No. 338,626. 4 Claims. (Cl. 15—24.)



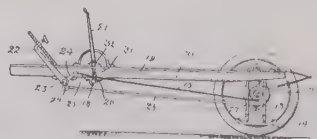
1. A cleaning device comprising a housing; a hub rotatably mounted in said housing; cleaning members radially and adjustably mounted with respect to said hub; and separate means mounted on the opposite sides of said housing for directing fluid against either side of said members for rotating the same in either direction, substantially as described.

1,423,845. DISPENSING AND DISPLAY HOLDER FOR CONFECTIONERY. HEBBERT D. FOSS, Brookline, Mass., assignor to H. D. Foss & Company, Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1922. Serial No. 546,582. 1 Claim. (Cl. 211—28.)



A dispensing and display holder comprising a casing composed of a bottom member, upright side members, and a front end member, closing the front end of the casing, the rear end being open, said members collectively forming a box holder proportioned to receive a relatively large candy box which is movable into and out of the casing through the open end thereof, the end and side members projecting above the space occupied by said box, and longitudinal upwardly facing rests, projecting inwardly from the side members below the upper edges thereof, and provided at their rear ends with stop ears, the said rests, the stop ears and the upper edge portions of the end and side members collectively constituting a tray-holder, adapted to support and display the contents of a tray removed from said box.

1,423,846. VEHICLE BRAKE. BERNHARD O. FREDERICK, Hibbing, Minn. Filed Mar. 1, 1921. Serial No. 448,750. 4 Claims. (Cl. 188—5.)



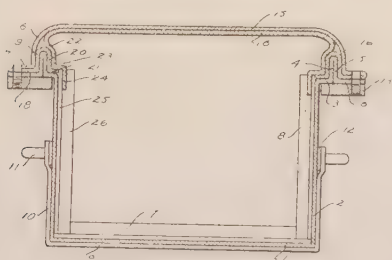
1. The combination with a vehicle having vertically suspended ground engaging shoes adjacent the wheels of said

vehicle and means cooperatively engageable intermediate of the wheels and shoe whereby forward motion of the former may be employed in applying the latter as a brake, and means whereby the brake may be applied independently of the motion of the wheels.

1,423,847. METHOD OF PRODUCING SILICON-MANGANESE-CHROME STEEL. GUNNAR GUSTAFSON, Avesta, AXEL AUGUST JUNGMARKER, Stockholm, and KARL ALBERT CASPERSSON, Engelsberg, Sweden. Filed Mar. 17, 1921. Serial No. 452,995. 1 Claim. (Cl. 75-45.)

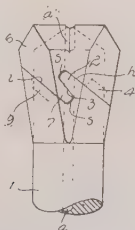
The method of making open hearth steel which comprises producing basic open-hearth steel, adding thereto ferro-manganese and then adding to the metal a previously melted decarburized alloy of ferro-chrome and ferro-silicon.

1,423,848. COFFIN. JOSEPH H. HARPER, Springfield, Ohio. Filed Jan. 27, 1921. Serial No. 440,433. 9 Claims. (Cl. 27-17.)



3. In a coffin, a bottom and sides, said sides being projected at their upper edges laterally, upwardly, downwardly and outwardly, a brace adjacent either of the sides projecting above the lateral projection of the side, a top composed of an inner and outer wall adapted to embrace between their lower edges the upwardly projecting portion of the sides and the internal brace, a reinforcing means adjacent the point of union of the top members and the sides, and means for positively fastening together said top, sides and reinforcing means.

1,423,849. DRILL. ARTHUR L. HAWKESWORTH, Butte, Mont. Filed Nov. 21, 1921. Serial No. 516,783. 5 Claims. (Cl. 287-103.)

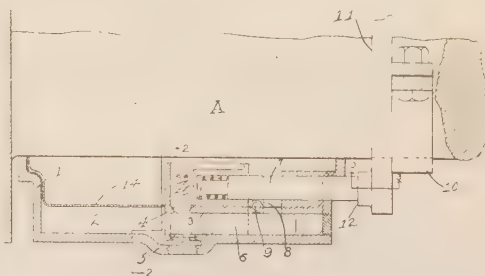


1. In combination with a drill bar or shank, a bit movable across the axis of the shank, said bit and drill bar each being provided with an inclined tapering tongue and groove disposed in superposed planes and complementary to the groove and tongue of the opposite member, said tongues and grooves being formed so as to wedge together with vertical pressure along the axis of the drill bar.

1,423,850. JOURNAL LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,867. 1 Claim. (Cl. 64-24.)

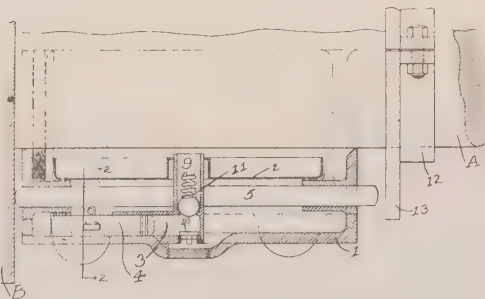
In combination, a railway car journal, a journal lubricator including a waste receptacle held in contact with

said journal, a lubricant reservoir adjacent to said receptacle, a pump for feeding lubricant from said reservoir to waste in said receptacle, a pump actuating rod extending parallel with said journal exteriorly of said reservoir



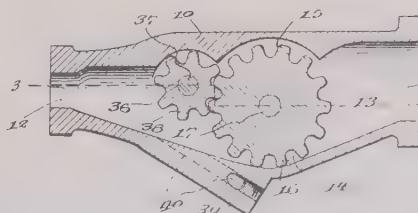
and receptacle, a cam mounted on said journal and contacting with said rod to move the latter axially in one direction with each revolution of the journal, and means energized by such movement to return said rod to its original position.

1,423,851. JOURNAL LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Sept. 20, 1921. Serial No. 501,868. 1 Claim. (Cl. 64-24.)



In combination with the journal and hub of a car wheel, a collar adapted to be clamped to said journal at a point spaced from the wheel hub, a journal lubricator applied to said journal between the wheel hub and said collar, said lubricator comprising a lubricant reservoir and a pump for feeding lubricant from said reservoir to the journal, a pump operating rod extending through the opposite walls of said lubricator with its opposite ends respectively opposing the wheel hub and collar, and a connection between said rod and said pump.

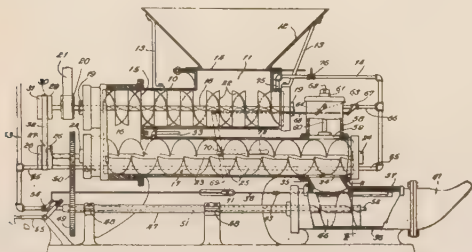
1,423,852. PUMP. KARL HERMAN, Chester, Pa. Filed May 2, 1921. Serial No. 466,274. 4 Claims. (Cl. 103-148.)



1. A pump comprising a casing, an impelling rotor mounted in the casing, the casing having inlet and outlet openings, a driving rotor operatively connected with the

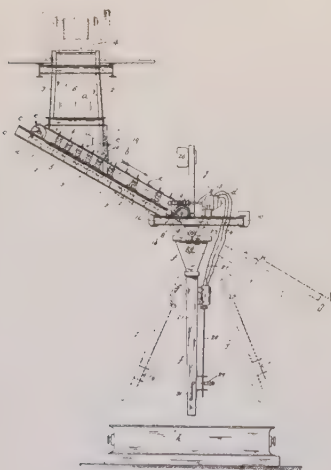
impelling rotor, means for admitting a motive fluid to the driving rotor, means for discharging the motive fluid from the driving rotor to the impelled fluid within the casing, and means actuated by the impelling rotor for preventing retrogression of the impelled fluid.

1,423,853. MIXING AND CONVEYING APPARATUS. CARL W. HODGSON, Chicago, Ill. Filed Jan. 24, 1921. Serial No. 439,450. 17 Claims. (Cl. 83—73.)



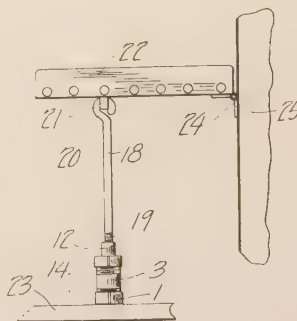
1. An apparatus of the character described embodying two chambers, one of the chambers discharging into the other, a combined mixer and conveyor in each of the chambers and embodying helicoids spaced in directions lengthwise of their axes, the proximate ends of adjacent helicoids overlapping, means for actuating them, means for delivering a dry mixture into one of the chambers, means for delivering a liquid into the other chamber, a receiving chamber for receiving the wet mixture, a delivery conduit connected with the last recited chamber, and means for directing a blast of fluid into the said receiving chamber for discharging the mixture through the said conduit.

1,423,854. SAND FEEDER. KARL S. HOWARD, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed Dec. 16, 1918. Serial No. 267,074. 6 Claims. (Cl. 198—72.)



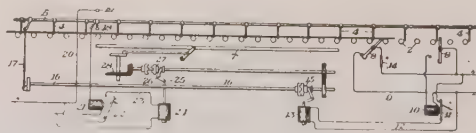
2. In a sand feeder, a supply hopper, a conveyor forming the floor of said hopper and extending outwardly therefrom, and a discharge chute at the end of said conveyor and formed in two sections, one section pivoted to swing in a vertical plane and the other section pivoted to said first-mentioned section to swing in a vertical plane at right angles to said first mentioned plane.

1,423,855. LOCOMOTIVE ENGINEER'S SEAT. OMAR JOHNSON, Laramie, Wyo. Filed Nov. 28, 1921. Serial No. 518,420. 1 Claim. (Cl. 155—51.)



A seat for locomotive engineers, comprising a seat base, a seat hinged above the base to one side of the locomotive cab; and a resilient element mounted between the seat and seat base, said element consisting of an interiorly threaded base cap to rest inverted upon the seat base; a pipe nipple exteriorly threaded at each end, one end being adapted to engage the base cap, two nested coil springs adapted to compress within the pipe nipple, a plunger to seat upon the springs compressed in the pipe nipple, the lower end thereof being tubular to receive the upper ends of the springs and the upper end being a reduced tubular shank threaded interiorly, a top cap for setting over the shank of the plunger, same having a hole through which the shank passes and being threaded interiorly to engage the upper end of the pipe nipple, and an eye bolt to engage the plunger shank, the eye of the bolt being secured to the under side of the seat.

1,423,856. DELIVERY MECHANISM FOR ROLLING MILLS. ALFRED E. JUPP and ROXIE S. CROOKS, Youngstown, Ohio, assignors to The Youngstown Sheet & Tube Company, Youngstown, Ohio, a Corporation of Ohio. Filed Apr. 17, 1919. Serial No. 290,890. 9 Claims. (Cl. 198—21.)

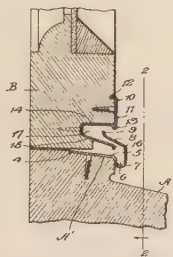


1. The combination with a cooling bed and its runway, of a push-off device for moving the hot workpieces from the runway to the cooling bed, and push-off controlling means on the runway actuated by but not materially checking the movement of the workpieces along the runway and operating upon engagement by a workpiece to start the push-off device, substantially as described.

1,423,857. WATERPROOFING DEVICE. GEORGE A. KAMPMANN, Brainerd, Minn. Filed Oct. 1, 1919. Serial No. 327,645. 5 Claims. (Cl. 20—69.)

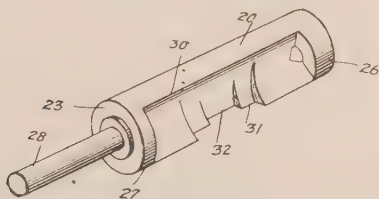
1. As a part of a weatherstrip device, a member comprising a substantially flat web arranged to be secured against the outside of a closure and having its material extending inwardly from the lower edge of the web as

the upper wall of a pocket portion arranged to seat against material of the closure to which the member is attached,



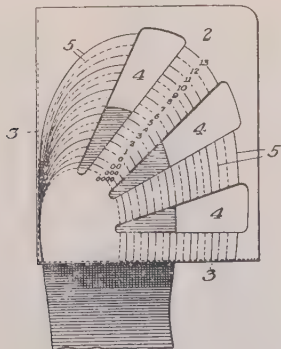
and having its material also extending outwardly and downwardly from the inner end of the pocket portion as the lower wall thereof.

1,423,858. THROTTLE VALVE. WALTER F. KASPER, Fairmont, Minn., assignor to Fairmont Gas Engine & Railway Motor Car Company, Fairmont, Minn., a Corporation of Minnesota. Filed Mar. 12, 1920. Serial No. 365,344. 6 Claims. (Cl. 123—59.)



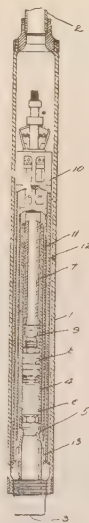
6. A throttle valve for a two cycle internal combustion engine, comprising a rotatable cylindrical valve having a segmental port along one side, said port having an arcuate bottom wall, and a plurality of ports progressively decreasing in length and increasing in depth from the opposite ends of the segmental port and formed in one side edge thereof, the bottom walls of the second ports, being arcuate and merging into the bottom wall of the first port in progressively spaced order from said side edge thereof.

1,423,859. HEEL GAUGE. JOHN S. LANSILL, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a Corporation of Pennsylvania. Filed Apr. 5, 1921. Serial No. 458,808. 10 Claims. (Cl. 33—3.)



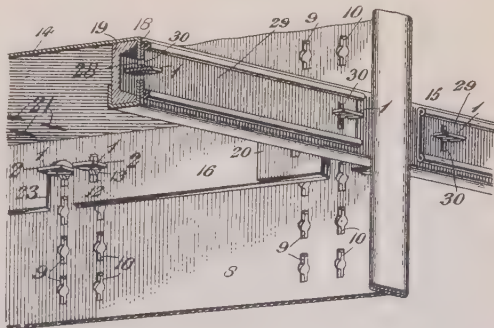
1. A gauge having a series of heel contour gauge or size lines or markings thereon, said lines or markings having a substantially common point of origin, substantially as described.

1,423,860. OIL-WELL PUMP. JOHN J. LARKIN, St. Louis, Mo., and ROBERT L. GORDON, Bartlesville, Okla., assignors to Bell Pump Company, Bartlesville, Okla., a Partnership composed of John J. Larkin, Robert L. Gordon, and A. W. Shulthis, Independence, Kans. Filed Sept. 1, 1921. Serial No. 497,570. 2 Claims. (Cl. 103—204.)



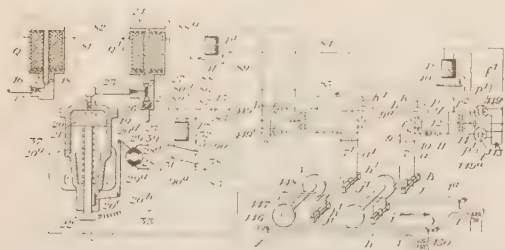
2. In an oil well, a pump device comprising a working barrel adapted to cooperate with the pump casing to form a pocket and provided with a standing valve seat at a substantial distance above the bottom of the pocket, a discharge chamber wall surrounding said barrel and extending into said pocket and provided with a toothed lower end which extends below said standing valve upon the down stroke of the pump.

1,423,861. LOCKING MECHANISM FOR SHELVING AND OTHER ARTICLES. ALBERT H. LEVENE, Philadelphia, Pa. Filed Oct. 2, 1919. Serial No. 327,904. 8 Claims. (Cl. 211—27.)



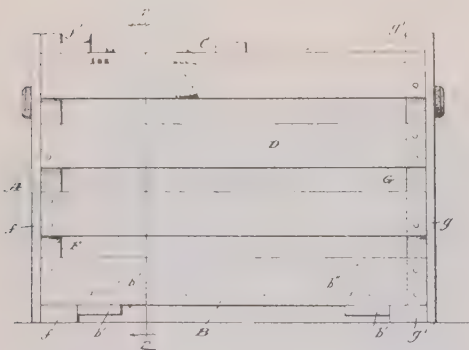
1. A shelving member having a double line of apertures, shelving members on opposite sides of said first shelving member, the side members each having an aperture to register with one line of apertures in the first shelving member, and locking devices to pass through registering apertures, the shelving member on one side being removable without affecting the locked condition of the member on the other side.

1,423,862. RAILWAY-TRAFFIC-CONTROLLING SYSTEM. LLOYD V. LEWIS, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 230,424, filed Apr. 24, 1918. This application filed Dec. 31, 1920. Serial No. 434,319. 12 Claims. (Cl. 246—41.)



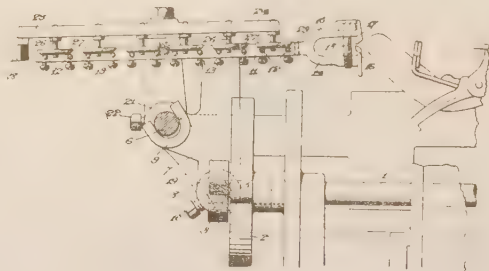
1. Railway traffic controlling apparatus comprising governing means on a train arranged normally to retard the train except when affected by energy received from the trackway, a portion of track equipped with means for supplying energy to the train and a portion of track not so equipped, electrical means adjacent the entrance end of the unequipped portion of the track for rendering said governing means ineffective to retard the train while the latter is passing through the unequipped portion of track, and mechanical means adjacent the exit end of said unequipped portion of track for restoring said governing means to its control of the train.

1,423,863. FOLDING CRATE. JOHN W. LUCABAUGH, near Hanover, Pa. Filed Sept. 16, 1921. Serial No. 501,128. 2 Claims. (Cl. 217—48.)



1. A folding crate including vertically pivoted side and end members in which one set of members is provided with pivot posts at their ends and the other set of members has horizontal pivot members extending over the ends of said posts, said pivot posts and members having complementary pivot recesses formed therein, pivot elements positioned between the ends of said pivot posts and the ends of said pivot members and extending into the recesses, and bottom and cover members for the crate.

1,423,864. COMBINED YARN CLEARER AND TENSION DEVICE. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1921. Serial No. 457,728. 16 Claims. (Cl. 28—67.)



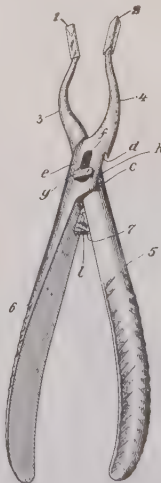
12. A combined yarn clearer and tension, comprising a plurality of pairs of horizontally disposed parallel knives, and a weighted disc resting on each pair of knives.

1,423,865. GARDEN TOOL. ARTHUR MILLER, Columbus, Ohio. Original application filed June 13, 1919, Serial No. 303,963. Divided and this application filed May 4, 1921. Serial No. 466,819. 5 Claims. (Cl. 55—39.)



5. A garden tool having a clip arranged to engage the blade of a hoe, said clip comprising rigid members bent to form approximately an angle of 90°, each of said members having a yielding member bent to form a resilient bight between it and its respective rigid member.

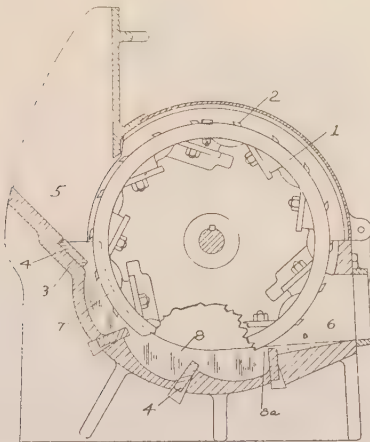
1,423,866. BONE RESECTOR. FRANK E. MILLER, New York, N. Y. Filed Apr. 24, 1918, Serial No. 230,421. Renewed Dec. 22, 1921. Serial No. 524,295. 5 Claims. (Cl. 128—318.)



3. A resector comprising, a pair of blunt edged operating members; relatively pivotable necks for constrain-

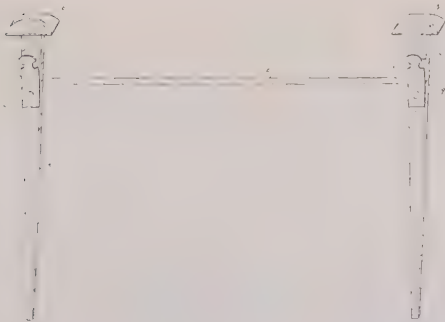
ing said members to move in separated parallel planes; and a pair of manually operable handles for effecting the operative movement of said members.

- 1,423,867. CUTTING MACHINE. PHILIP S. MITTS and WILLIAM J. WINSTON, Saginaw, Mich., assignors to Mitts & Merrill, Saginaw, Mich., a Corporation of Michigan. Filed Dec. 27, 1921. Serial No. 525,204. 4 Claims. (Cl. 83—6.)



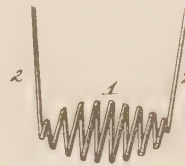
1. In a cutting machine including a casing having a knife-carrying drum rotatably mounted therein, stationary knives disposed around the lower periphery of the casing, an inlet at one side of the casing, and an outlet at the opposite side of the casing, a lateral retaining wall at each side of said casing, said wall extending from the inlet around the interior of the casing to the outlet, the distance between said walls slightly greater than the length of said drum, a scraping device carried by the rim of said drum and adapted to prevent material packing between the end of said rim and the face of said retaining wall.

- 1,423,868. LINE HOLDER. HENRY MONAHAN, Meriden, Conn. Filed Apr. 13, 1922. Serial No. 552,405. 3 Claims. (Cl. 24—115.)



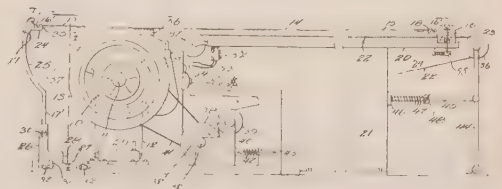
1. A line holder, comprising a pin formed in one side with a notch, and a finger secured to the notched side of the pin and projecting upward beyond the upper end of the notch.

- 1,423,869. ATTACHMENT FOR TOBACCO PIPES. JOSEPH CARROLL MONMONIER, Catonsville, Md. Filed Mar. 18, 1921. Serial No. 453,249. 2 Claims. (Cl. 131—12.)



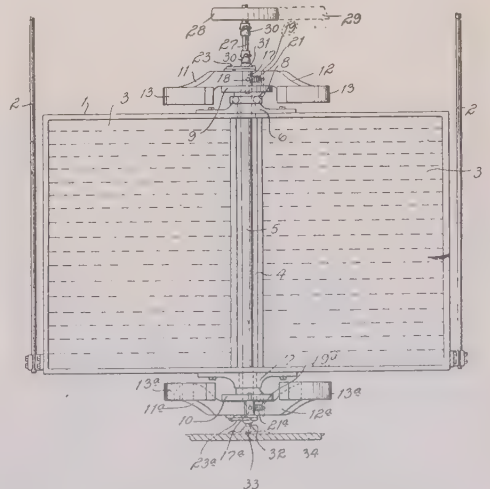
2. An attachment for tobacco pipes consisting of a wire coiled into a helix of oval form having laterally extended elastic fingers which bear against the wall of the bore, said attachment constituting a grate or grid adapted to rest on the bottom of the bowl cavity.

- 1,423,870. TIRE-MAKING MACHINE. FREDERIC C. MORTON, New Haven, Conn. Filed Oct. 7, 1918. Serial No. 257,227. 14 Claims. (Cl. 154—10.)



1. In a tire building machine, the combination of spaced stretching devices, means including dummy strips for connecting the ends of a strip of fabric to said spaced devices, and means to space said devices farther apart and thereby effect a stretching of the strip of fabric.

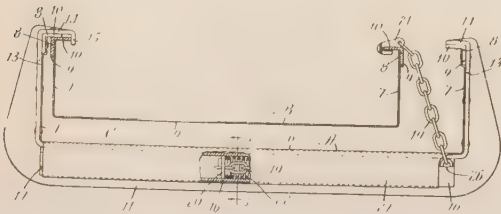
- 1,423,871. DRIVING MECHANISM FOR PRODUCING GYRATORY MOTION. BURTON NEAL, St. Louis, and GEORGE HOWARD HEBBRAND, Kinloch, Mo. Filed Jan. 18, 1922. Serial No. 530,089. 4 Claims. (Cl. 74—14.)



1. Driving mechanism for producing a gyratory movement of a suspended body, comprising a driven shaft on

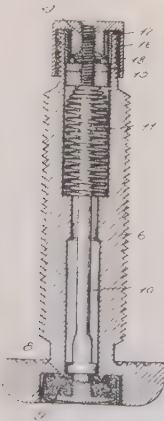
which said body is rotatably mounted, a plate fixedly secured on the end of said shaft, weighted arms pivotally mounted at one end on said plate eccentrically of said driven shaft and having geared relation at such pivoted ends, said weights being adapted to be thrown outward under the action of centrifugal force when said plate and driven shaft are rotated, a socket member movable by said arms simultaneously with and in the general direction of the movements of said weights, and a vertically disposed drive shaft having a driving connection at its lower end with said socket member for imparting rotation to said plates and the parts connected with and mounted thereon.

1,423,872. COAL CHUTE. ENOCH E. NEAL, Malden, Mass. Filed Mar. 23, 1921. Serial No. 454,825. 12 Claims. (Cl. 193—40.)



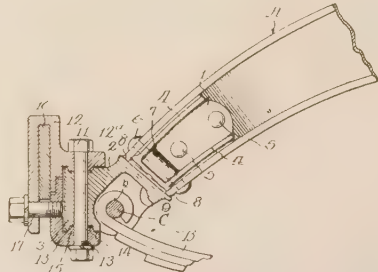
1. A device of the character described having, in combination, a plurality of chute sections, a tube fast to the underside of one of said sections and provided with a slot at one end thereof, a flexible member normally located within said tube, a portion thereof being adapted to be withdrawn therefrom and fastened within said slot, means located at the outer end of said flexible member adapted to be attached to another of said sections and means to pull said flexible member into said tube when the same is released from said last-mentioned section and removed from said slot.

1,423,873. VALVE DEVICE FOR PNEUMATIC TIRES. JOSEPH N. NEWSOM and HARRY E. HARDER, St. Louis, Mo., assignors to Newsom Valve Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 5, 1920. Serial No. 356,543. 4 Claims. (Cl. 152—12.)



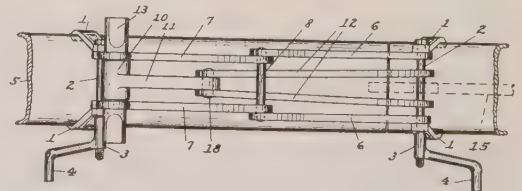
1. In a device for filling pneumatic tires an element comprising an abutment adapted to fit into the housing of the tire valve for engagement with the stem of a chuck valve to positively open the chuck valve and to limit the depression of the stem of the tire valve.

1,423,874. AUTOMOBILE BUMPER-ATTACHING HANGER. WILLIAM G. PANCOAST, Wilmette, and WILLIAM J. GROTEHUIS, Chicago, Ill., assignors, by mesne assignments, to Biflex Products Company, a Corporation of Delaware. Filed Sept. 9, 1921. Serial No. 499,473. 7 Claims. (Cl. 293—55.)



4. A hanger adapted to be permanently connected to the end of an automobile frame member, and comprising a shank portion, a head beyond the end of said frame member provided with a forwardly facing and curved abutment face, and bumper attaching members adapted to be pivotally connected with said head through the medium of interfitting bosses and depressions, and a pivot bolt, and to engage said abutment face.

1,423,875. RIM TOOL. PETER R. PETERSON, Salt Lake City, Utah, assignor to Ideal Rim Tool Co., Jacksonville, Fla., a Corporation of Florida. Filed June 29, 1921. Serial No. 481,315. 3 Claims. (Cl. 157—1.)

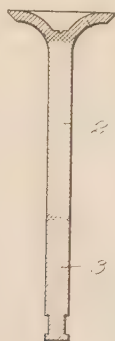


1. A rim tool, comprising a pair of rim engaging clamps, a lever for pivotal engagement on one of said clamps, and having a portion thereof adapted to bear against the inner face of one end of a rim while the clamp on which it is pivotally engaged holds the other end of the rim, coacting links pivoted together and to said clamps, a crank member journaled in one of the first mentioned links, and a link pivoted at one end to one of said first mentioned links and at the other end to the crank member.

1,423,876. POPPET VALVE. CARL PFANSTIEHL, Highland Park, Ill., assignor to Pfanstiehl Company, Inc., North Chicago, Ill., a Corporation of New York. Filed July 25, 1918. Serial No. 246,633. 1 Claim. (Cl. 123—188.)

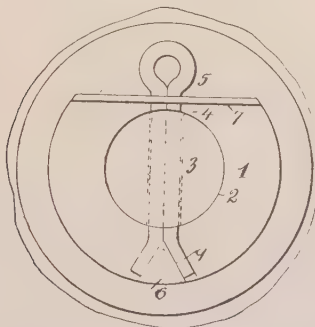
An exhaust valve for internal combustion engines including a stem having two parts formed of metals having differing co-efficients of expansion, the union between the metals being so positioned between the ends of the stem as to provide a total stem expansion which, under the temperature at which the stem operates, substantially

equals the expansion of the valve housing under the temperature at which it operates, whereby the clearance be-



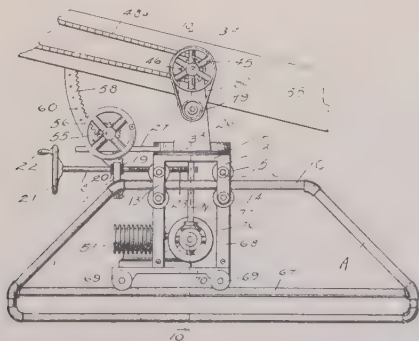
tween the end of the valve stem and its tappet will not be materially altered through changes in temperature.

1,423,877. WASHER FOR MINE-CAR WHEELS. ROBERT F. PHILLIPS and LOUIS J. McCLOSKEY, Pittsburgh, Pa., assignors to Phillips Mine & Mill Supply Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 30, 1922. Serial No. 532,723. 3 Claims. (Cl. 295—50.)



1. A washer for mine car axles, provided with a lug on its face adapted to fit between the limbs of the lynch or cotter pin, by which the wheel is retained on the axle and to maintain such limbs in divergent relation and interlock the pin and washer, the washer being provided with means to prevent lateral movement in relation to the pin and axle.

1,423,878. LOADER DEVICE. LAURENS DAY POTTER and THOMAS CHARLES NOLAN, Emmetsburg, Iowa. Filed July 19, 1920. Serial No. 397,283. 13 Claims. (Cl. 198—118.)

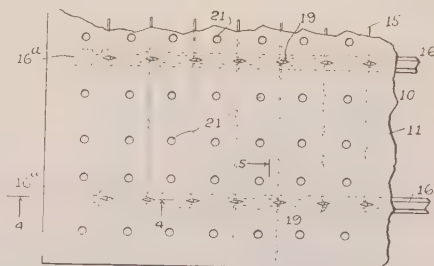


1. A loader device comprising a main frame, an auxiliary frame mounted thereon, a vertical shaft rotatably

mounted in said auxiliary frame, a conveyor frame mounted on said auxiliary frame for rotation about said vertical shaft as an axis, a conveyor member mounted in said conveyor frame, said conveyor member being so arranged that its center of gravity will at all times be substantially over said vertical shaft, an engine mounted on said auxiliary frame, and means for transmitting power to said conveyor member from said engine through said vertical shaft.

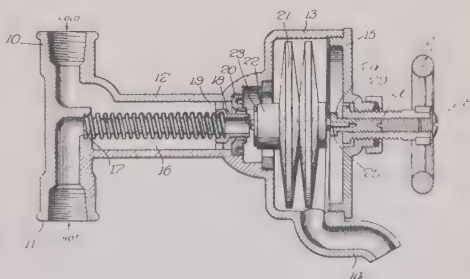
13. A loader device comprising a main frame, an auxiliary frame mounted thereon, a vertical shaft rotatably mounted in said auxiliary frame, a conveyor frame mounted on said auxiliary frame for pivotal movement around said vertical shaft, means whereby said conveyor frame will be held against any tendency to tip with relation to said auxiliary frame, said means including a sleeve surrounding the vertical shaft and passing through the auxiliary and conveyor frames, and lock nuts on the ends of said sleeve for holding the two frames securely together and still allow one of them to revolve freely in relation to the other, a horizontal shaft mounted in said conveyor frame, a conveyor member mounted thereon for pivotal movement in a vertical plane around said horizontal shaft as an axis, a supporting platform suspended below the auxiliary frame, an engine mounted thereon, and means operatively connecting the engine to the conveyor member through the said vertical and horizontal shafts, whereby motion may be transmitted thereto.

1,423,879. PLASTER SUPPORT FOR WALLS. STEPHEN J. POTTER, Syracuse, N. Y., assignor to Sheet Lathing Corporation, Syracuse, N. Y., a Corporation of New York. Filed Mar. 11, 1921. Serial No. 451,624. 4 Claims. (Cl. 72—116.)



1. A paper wall board comprising a strip of paper of laminated structure having transverse strengthening ribs spaced apart thereon and attached thereto, each rib being formed transversely into an arch through the greater part of its length, but flattened at the ends.

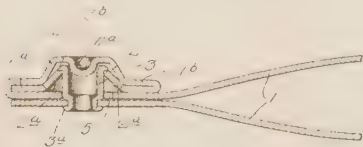
1,423,880. WATER MIXER. FRED W. POWERS, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1919. Serial No. 303,871. 9 Claims. (Cl. 236—12.)



6. In a fluid controller, the combination of a casing having a rigid inlet tube and a telescopic tube arranged

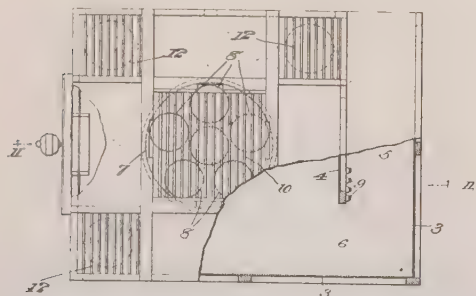
within the rigid tube, seats at the terminal points of the rigid and telescopic tubes, a thermostat within the casing, and a valve member carried by the thermostat, said valve member being adapted to sequentially contact said seats, substantially as described.

- 1,423,881. SEAL. HARRY R. ROGERS, Chicago, Ill., assignor to Chicago Car Seal Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1921. Serial No. 478,560. 4 Claims. (Cl. 292—322.)



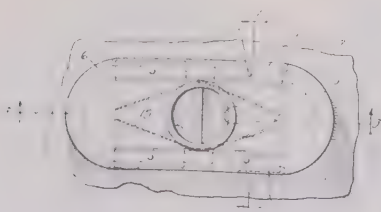
1. A seal comprising a shackle-strip, a locking stud carried by one end thereof, and a locking socket carried by the other end thereof, the metal of said strip being folded on itself so as to reverse the position of said socket and the double ply of metal thus formed being then folded on the adjoining portion of the strip, said adjoining portion being provided with a perforation to admit the locking stud to the socket, said stud and socket being located on opposite sides of the strip.

- 1,423,882. COLOR-MATCHING ROOM. GEORGE S. RADFORD, New York, N. Y., assignor, by mesne assignments, to Central Union Trust Company of New York, New York, N. Y., a Corporation of New York, trustee. Filed Nov. 23, 1921. Serial No. 517,265. 12 Claims. (Cl. 240—1.)



1. A color matching room comprising a matching chamber having an entrance for the user, a source of artificial daylight in said chamber, and a tubular light shield surrounding the artificial daylight source and of sufficient length to protect the eyes of the user.

- 1,423,883. BEE ESCAPE. HERBERT D. ROGERS, Lewis-town, Ill. Filed May 8, 1920. Serial No. 379,693. 5 Claims. (Cl. 6—4.)

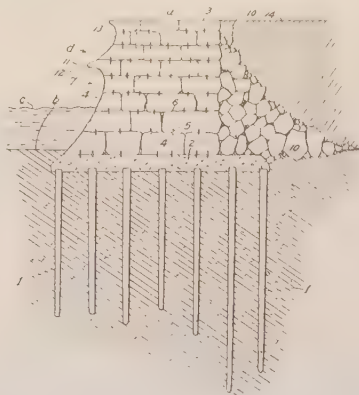


1. A bee escape comprising a sheet metal base plate, a channel member comprising bottom and side walls

forming with said base plate a longitudinal passage open at one end, there being provided an inlet opening through said base plate and flanges along the edges of said channel members having flatwise contact with the marginal portions of said base plate, the edges of said flanges and base plate being crimped together.

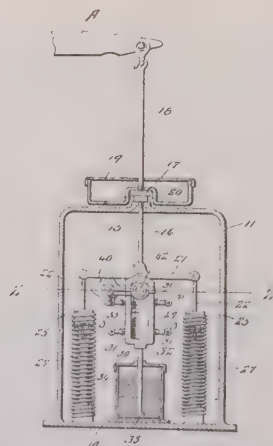
3. A bee escape comprising a sheet metal base plate provided with inturned marginal edges along opposite sides thereof, and a channel shaped plate comprising bottom and side walls, the latter having integral marginal flanges, bearing along the edges of said base plate and secured thereto by the crimping of the inturned edges of the base plate over the edges of the flanges.

- 1,423,884. OCEAN PIER. ALLAN CYRUS RUSH, Los Angeles, Calif., assignor of one-half to Henry L. Miller, Glendale, Calif. Filed Feb. 10, 1920. Serial No. 357,681. 4 Claims. (Cl. 61—49.)



1. A pier wall having an outer face provided with a bead, said face sloping from its base upward and inward toward the bead and from the ridge of the bead downward to said upwardly and inwardly sloping face, the upper face of the bead sloping upwardly and inwardly and a guard extending outwardly to intercept the splash and slosh.

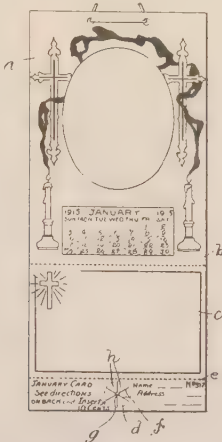
- 1,423,885. WEIGHT INDICATOR FOR SCALES. HENRY C. SCHAPER, St. Louis, Mo., assignor to The General Automatic Scale Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 24, 1920. Serial No. 360,571. 10 Claims. (Cl. 265—39.)



1. The combination with a weighing scale, of a vertically movable weight indicia bearing member connected to and adapted to be actuated by a movable part of the scale, a horizontally disposed lever connected to said

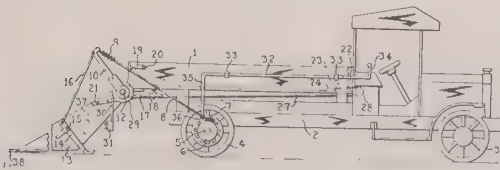
weight indicia member, means connected to said horizontal lever for yieldingly resisting the movement of said member in one direction, a screen, and means including a source of light and lenses for projecting the weight indicia onto said screen.

1,423,886. REMITTANCE REMINDER. HENRI M. STEWART, New York, N. Y. Filed June 8, 1921. Serial No. 476,108. 4 Claims. (Cl. 229—92.9.)



1. A new article of manufacture consisting of a remittance reminder formed of heavy paper stock including therein a main section having suitable matter impressed thereon, and a coin receiver section formed integrally with said main section, said paper stock having a weakened line extending across it whereby said coin receiver section is separable from said main section, said coin receiver section having an opening therein adapted to receive a coin and means adjacent said opening for retaining a coin therein.

1,423,887. TRUCK LOADING AND UNLOADING MECHANISM. RICHARD F. STEWART, Briarcliff, N. Y. Filed Mar. 6, 1920. Serial No. 363,739. 10 Claims. (Cl. 214—81.)

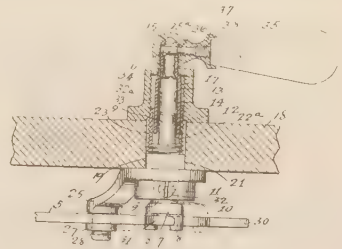


1. The combination with a motor driven vehicle, of a scoop pivotally mounted thereon, and power driven means for moving said scoop on its pivotal axis from excavating position to a position in which the excavated material is dumped into said vehicle, said scoop moving means embodying ground engaging levers for initiating the raising of the scoop.

1,423,888. FLUSHING MECHANISM. OSCAR H. THELBEN, Kenosha, Wis., assignor to Frost Manufacturing Company, Kenosha, Wis., a Corporation of Wisconsin. Filed Apr. 7, 1919. Serial No. 288,196. 10 Claims. (Cl. 4—5.)

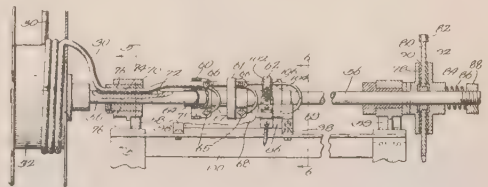
1. In leverage mechanism, for closet tanks the combination with a fixed bearing, of a divided rock shaft journaled

therein, means cooperating with said fixed bearing for holding the shaft sections in fixed adjustment, a handle secured to one part of the shaft, said part adapted to



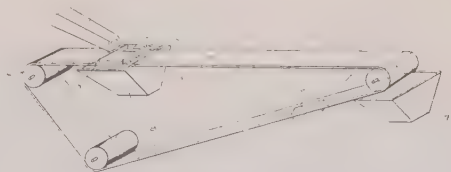
engage the other part of the shaft in longitudinally adjustable contact and transverse angular non-rotative engagement with each other and means whereby the rock shaft is held in the bearing.

1,423,889. POWER CABLE-REELING MECHANISM FOR SELF-PROPELLED MACHINES. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed Apr. 13, 1921. Serial No. 461,164. 4 Claims. (Cl. 191—12.)



2. In mechanism of the class described, a rotatable shaft, a cable reel carried by the shaft, a support for the shaft, a cable connected to the reel leading through said support to the other side thereof, and a sleeve enclosing the shaft and cable at said support rotatable in said support, for the purposes set forth.

1,423,890. SAMPLING APPARATUS. ROBERT K. WARNER, West Haven, Conn. Filed July 15, 1920. Serial No. 396,433. 1 Claim. (Cl. 73—21.)

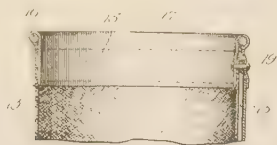


The combination with a delivery device and a receiver in line therewith and spaced therefrom, of a longitudinally-movable conveyor which carries material from the delivery device to the receiver, said conveyor formed with an opening of predetermined area for the passage through it of a sample of the material carried thereon.

1,423,891. GOLF BAG. JAMES S. WHITE, Chicago, Ill., assignor to Allied Golf Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 21, 1921. Serial No. 446,683. 1 Claim. (Cl. 150—1.5.)

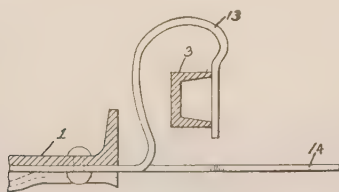
In a golf bag in combination, a top comprising a ring, a strip of rawhide doubled about said ring, flexible body material secured between the portions of said rawhide, stays secured to said body portion and extending between

the portions of said rawhide, rivets passed through said rawhide and said stays, a bottom comprising an end member having a downward turned annular flange, a strip



of rawhide formed in an annular channel enclosing said flange, said body material extending between the annular flange and rawhide, and rivets passed through the rawhide and engaging said stays and said body material.

- 1,423,892. BRAKE-BEAM RELEASE AND SUPPORT. CHARLES HAINES WILLIAMS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Original application filed July 15, 1920, Serial No. 396,438. Divided and this application filed June 16, 1921. Serial No. 478,137. 3 Claims. (Cl. 188—213.)



3. A third or fourth point support for brake beams comprising a member secured to the car truck and extending under the beam, and a retractive means integral with said support and engaging the beam to force it to a released position.

- 1,423,893. HIGHWAY ROAD. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Aug. 11, 1920. Serial No. 402,864. 11 Claims. (Cl. 238—4.)



1. In a structure of the class described, a channel rail laid longitudinally with the roadway, with the web of the channel furnishing the tread surface of the rail and having its flanges expanded for the purpose of giving depth, saving metal and for apertures for the entry of concrete; in combination with a concrete mass in which the channel is embedded on all sides excepting the top surface of the web and a series of reinforcing rods extending through the web of the channel transversely binding the concrete on either side of the channel.

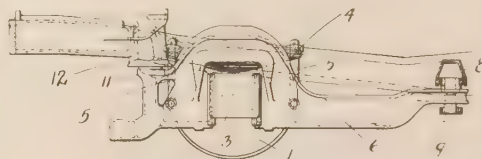
- 1,423,894. BUMPER FOR AUTOMOBILES. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Oct. 3, 1921. Serial No. 504,842. 9 Claims. (Cl. 293—55.)



5. In a bumper beam, the combination with two vertically spaced parallel bars having their bodies approxi-

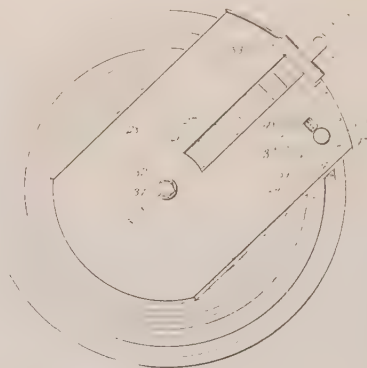
mately in a vertical plane and their end portions rearwardly curved and united in a medial horizontal plane, of a third parallel bar lying in the rear of the vertical space between the front bars and connected at its ends with the corresponding ends of the front bars, the three bars being connected to each other and to the car frame members, with which they are in substantial alinement.

- 1,423,895. TRAILER TRUCK FOR LOCOMOTIVES. WILLIAM E. WOODARD, Forest Hills, N. Y. Filed Jan. 14, 1922. Serial No. 529,227. 6 Claims. (Cl. 105—174.)



1. A locomotive trailer truck including a frame adapted to be supported by truck wheels between its ends and adapted to support a locomotive frame at both of its ends.

- 1,423,896. CALCULATING RULE. WILLIAM L. WYCKOFF, Brooklyn, N. Y. Filed Oct. 10, 1916. Serial No. 124,833. 6 Claims. (Cl. 235—84.)

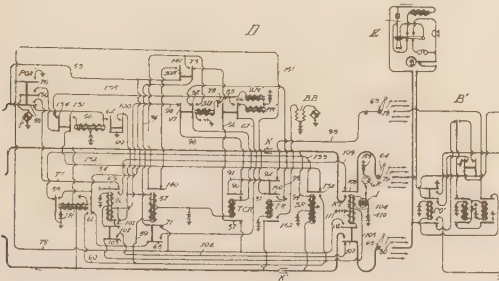


1. In a device of the class described, the combination of a plurality of coaxial relatively movable circular scales, a scale coaxial with the first-mentioned scales and in fixed relation to one of the same, the graduations on said scale representing and bearing numbers between two integral powers of ten and being divided into equal parts, said numbers being divided into periods with those numbers on the same one of said equal parts having the same number of digits in the left hand period, and means for aligning the graduations on the relatively movable scales.

- 1,423,897. CONNECTOR SWITCH. GEORGE A. YANOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 1, 1917. Serial No. 183,870. 34 Claims. (Cl. 179—18.)

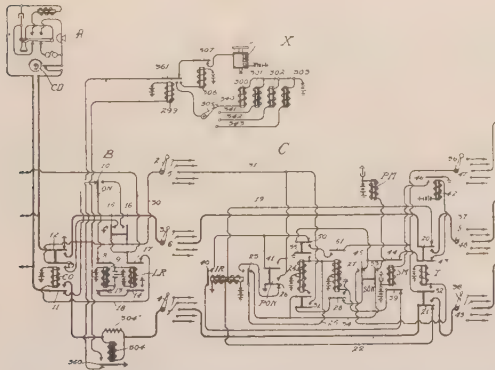
1. A telephone system including a called subscriber's line, a connector switch for extending a connection to said called subscriber's line, a test circuit for said connector switch, a test control relay and a test relay for said connector switch, means for momentarily energizing said test

control relay, contact control by said test control relay for connecting said test relay to a test contact of the called



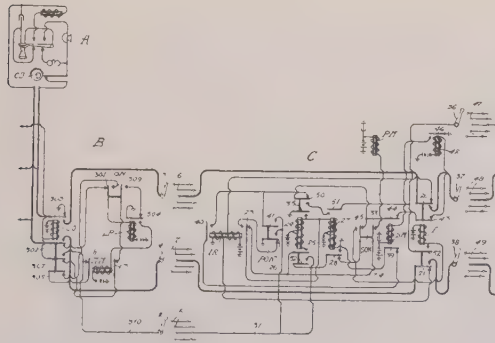
line, and means controlled by said test relay if said called line is busy to interrupt said test circuit.

1,423,898. AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 6, 1918. Serial No. 238,461. 23 Claims. (Cl. 179—9.)



1. A telephone system including subscribers' telephone lines provided with calling devices, switching means controlled by said calling devices for interconnecting said subscribers' telephone lines, and recording devices including means for automatically and permanently recording the numbers called by the calling devices.

1,423,899. AUTOMATIC TELEPHONE SYSTEM. GEORGE A. YANOCHOWSKI, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 5, 1918. Serial No. 243,292. 21 Claims. (Cl. 179—18.)



1. A telephone system including a trunking switch, a motor magnet for said trunking switch, a line relay for

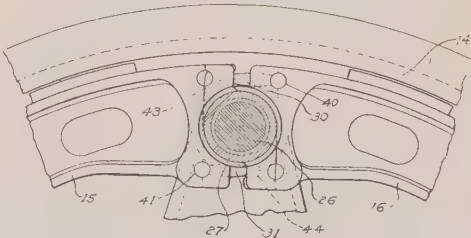
controlling said motor magnet, off-normal contacts for controlling the circuit of said line relay, a cut-off relay for said trunking switch, and a circuit for said cut-off relay including contacts of said line relay and contacts of said motor magnet.

1,423,900. TENNIS RACKET. GEORGE AGUTTER, Forest Hills, N. Y. Filed Jan. 6, 1921. Serial No. 435,333. 5 Claims. (Cl. 46—24.)



1. In a racket, the combination with a wooden head frame and depending handle of a reinforcing metallic binding engaged with and surrounding the outer periphery of said head-frame, the ends of said binding being engaged with and secured to the sides of said handle, said binding having on its opposite sides inwardly extending marginal skirts overlapping the sides of said head frame, and a longitudinally extending centrally disposed depressed rib on the inner side of said binding, said rib being countersunk in the outer periphery of said head frame.

1,423,901. BRAKE MECHANISM. WALTER C. BAKER, Cleveland, Ohio, assignor to Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1919. Serial No. 284,083. 4 Claims. (Cl. 188—78.)

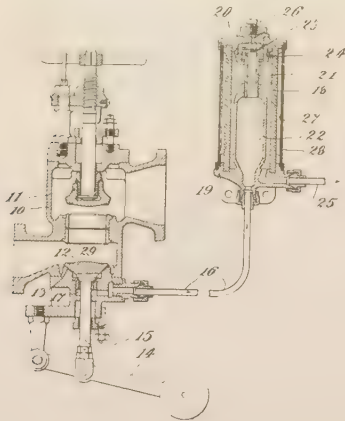


2. In brake mechanism, the combination of a brake drum, brake shoes each pivoted at one end and having their other ends in proximity, and means for separating said other ends of the brake shoes comprising a rotatable member having lever arms thereon and compression members cooperating with said lever arms and the ends of said brake shoes, each of said members being at all times substantially perpendicular to the line joining its point of contact with the brake shoe to the pivot point of the brake shoe.

1,423,902. TESTING APPARATUS FOR INDICATING LEAKS. GUSTAV BAUER, Hamburg, and FRITZ KRAMER, Blankenese-Dockenhuden, near Hamburg, Germany. Filed Mar. 31, 1922. Serial No. 548,482. 5 Claims. (Cl. 137—77.)

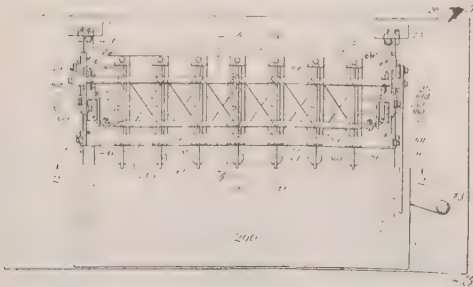
1. A leak indicating apparatus for submarine fuel oil tanks maintained at sub-pressure, including a conduit for

connecting the tank to the apparatus for establishing and maintaining the sub-pressure, a valve for closing said con-



duit, a normally closed by-pass around said valve, and means in said by-pass for indicating the passage of water therethrough.

1,423,903. MARKING MACHINE. EMIL T. BENSON, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,213. 9 Claims. (Cl. 33—190.)



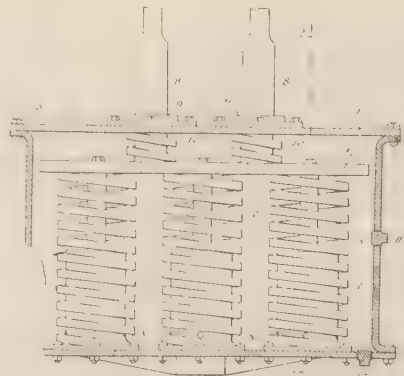
1. In a marking machine, a plurality of marking devices, means for equally spacing the marking devices through any predetermined distance within the range of the machine, each of the marking devices including a marking finger, a work-supporting table, the marking fingers normally lying to one side of the work-supporting table, and means for simultaneously moving the marking fingers over work supported on the work-supporting table and bringing the same into contact with such work.

1,423,904. SHOCK ABSORBER. OGDEN F. BLYBURG, St. Joseph, Mich. Filed Feb. 16, 1921. Serial No. 445,278. 12 Claims. (Cl. 188—88.)

1. A shock absorber comprising a plunger, a chamber in which said plunger is arranged to reciprocate, forming a dash pot, and spring means held in place by the dash pot and adapted to yieldingly hold said plunger in normal position.

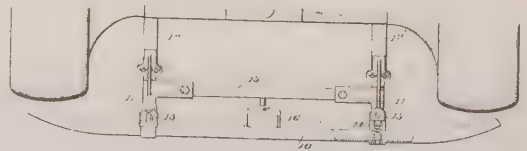
4. In a shock absorber, a housing to contain a liquid, a cylinder in said housing, a plunger in said cylinder, with a passage connecting the cylinder with the housing, so that the liquid flows back and forth between the housing and the chamber, a coil spring arranged for compression on the exterior surface of said cylinder, means connected to said

plunger to bear upon said spring, so that the spring is compressed when the plunger expels the liquid from said cham-



ber with clearance all around to prevent the spring from rubbing on the housing, a stuffing box on the housing, and a rod connected to said plunger to slide in said stuffing box.

1,423,905. IDENTIFICATION FENDER FOR VEHICLES. LEWIS P. BRADY, San Francisco, Calif. Filed Jan. 4, 1922. Serial No. 526,980. 6 Claims. (Cl. 116—32.)

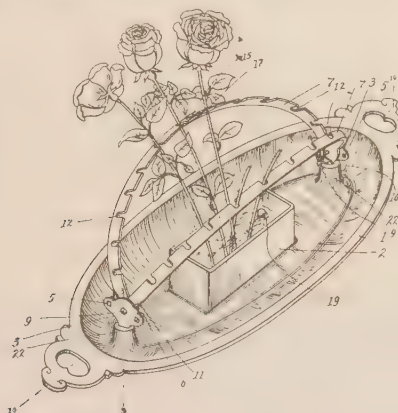


3. In a vehicle, in combination with a bumper bar yieldingly held with respect to the frame of the vehicle, of an identification plate holder fixed to said bumper bar, a movable retaining member pivotally connected to said holder and adapted to cooperate therewith in supporting an identification plate under normal conditions, means for sealing said retaining member in position, a cross-bar fixed to the frame of the vehicle at the rear of the bumper, and a releasing member fixed on said cross bar and adapted to engage said movable retaining member when movement is imparted to the bumper by force of impact, the engagement causing breakage of the seal and release of the identification plate.

1,423,906. FLOWER RECEPTACLE. JOSEPHINE BRETSCHNEIDER, St. Paul, Minn. Filed Feb. 23, 1922. Serial No. 538,666. 9 Claims. (Cl. 47—18.)

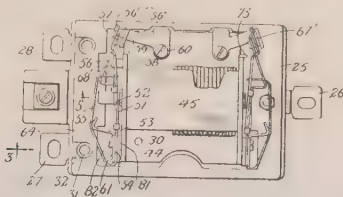
1. A flower holding device, comprising a liquid container, supports for bows on opposite sides of said container, bows mounted on said supports to incline outwardly to opposite sides thereof, said bows extending between said supports and adapted to loosely embrace the stems of flowers extending from said container to hold the

stems in spaced order, the mounting of said bows including frictional pivotal connections, between the bows



and said supports whereby to enable said bows to be swung toward each other and be frictionally held at various positions on said supports.

1,423,907. ELECTRIC CONTROLLING APPARATUS. FREDERIC H. BULLINGER, Yonkers, N. Y., assignor to Ward Leonard Electric Company, a Corporation of New York. Filed Aug. 18, 1917. Serial No. 186,863. 15 Claims. (Cl. 200—90.)



4. In a circuit controlling armature, a permeable member with an extension at one side, a resilient sheet metal member fastened to the permeable member and having an extension adjacent to the first mentioned extension and carrying a contact button, these two extensions having interengaging stops whereby the button may be moved over a definite limited range relatively to the permeable member, said sheet metal member having another extension on its opposite side adapted to be fastened to a fixed support and thus afford a hinge connection thereto for the permeable member and being further extended and bent around the permeable member and engaging the same to act as a retractile spring therefor.

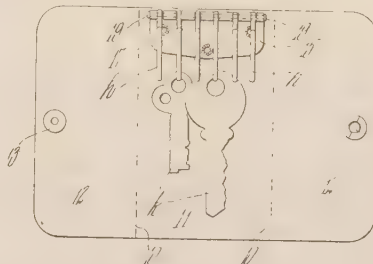
1,423,908. ROBE FOR CHILDREN'S GOCARTS AND INVALID CHAIRS. EDITH RUSSELL CHURCH BURCHARD, Little Compton, R. I. Filed Apr. 6, 1922. Serial No. 550,249. 6 Claims. (Cl. 296—81.)



1. An adjustable robe having side openings substantially its whole length, combined with a foot-pocket made integral therewith, the upper edge of one of the por-

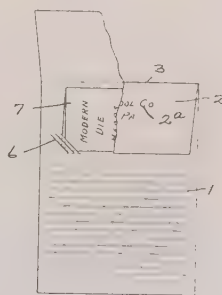
tions of said robe forming a suitable case for the reception of a belt, and a belt for encircling the body contained in said case and freely removable therefrom.

1,423,909. KEY CASE. WARNER R. BUXTON, Longmeadow, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a Corporation of Massachusetts. Filed May 20, 1920. Serial No. 382,866. 7 Claims. (Cl. 150—40.)



6. A case for keys and the like, comprising, a foldable supporting strip, a member secured thereto and affording a pivotal support, and a plurality of snap hooks pivotally supported from the latter in longitudinally spaced relation and for swinging movement into and out of the case in arc-like paths of substantially constant radius, each of said hooks comprising a member having one end so engaged with said support as to permit swinging movement and restrain radial movement of the hook relative thereto and having a part extending away from such end and at a distance therefrom bent backwardly upon itself and extending in substantially converging relation to said part until in abutment therewith, said backwardly bent portion being then bent away from said part and terminating at a short distance therefrom.

1,423,910. LETTER SHEET. HOWARD B. CAMPBELL, Erie, Pa. Filed Oct. 6, 1920. Serial No. 414,991. 11 Claims. (Cl. 120—74.)

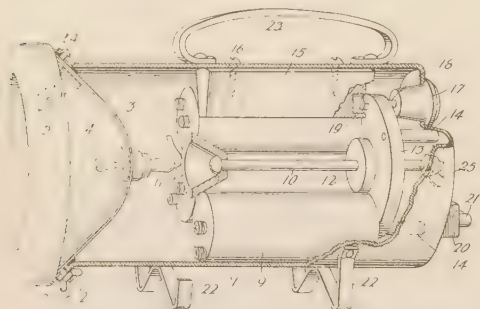


4. A letter sheet having a letter head formed on the outer face of a fold extending downwardly from the top of the sheet and display matter arranged on the underside of the fold and at the top of the sheet next the fold whereby when the fold is turned back the matter on the fold continues on to the sheet.

1,423,911. PORTABLE ELECTRIC LANTERN. ALLEN D. CARDWELL, Rockville Center, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 27, 1920. Serial No. 384,534. 10 Claims. (Cl. 240—8.5.)

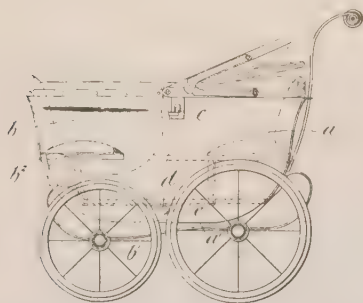
7. An electric lantern comprising a container having an open and a closed end, a battery mounted therein

and spaced from the ends of said container, a headlight mounted within the open end of said container, and a tail light projecting through an opening formed in the closed



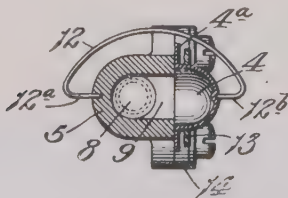
end of said container and fitted within the space between the closed end of said container and the adjacent side of the battery, and means for connecting said lights in circuit with said battery.

- 1,423,912. CONVERTIBLE PERAMBULATOR AND PUSH CHAIR. WALLACE ERNEST CARTER, Dover, England. Filed Apr. 10, 1922. Serial No. 551,350. 1 Claim. (Cl. 296-63.)



A convertible perambulator and push chair including in combination with the main body having a seat, a detachable foot section also having a seat adapted to rest on the front edge of the main body while the rearwardly projecting sides telescope within the main body, means for holding said detachable foot section in place consisting of catches including socketed parts carried by the main body adjacent the upper front edge thereof and hook portions carried by the rear edges of the detachable foot section and engaging with said socketed parts, and a transverse rod carried by the lower rear edge of the detachable foot section and adapted to engage beneath the main body, the said catches and rod cooperating to prevent the seat in the said detachable section from rocking on the edge of the foot section of the main body and becoming disengaged therefrom.

- 1,423,913. FUEL-SUPPLY APPARATUS FOR INTERNAL-COMBUSTION ENGINES. WILLIAM C. CARTER, St. Louis, Mo. Filed Dec. 16, 1918. Serial No. 266,908. 21 Claims. (Cl. 158-36.)



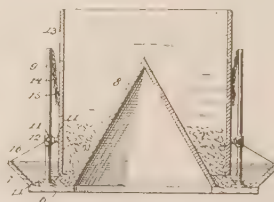
1. A fuel supply apparatus for internal combustion engines, comprising a diaphragm pump, a pipe communi-

cating with the pressure chamber of the pump and with a means that creates pressure in said pipe intermittently, and automatic means for admitting air to said pipe to-scavenge same when the engine is in operation.

- 1,423,914. ELECTRICAL ARC WELDING. JACK CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Jan. 14, 1920, Serial No. 351,358. Renewed Feb. 3, 1922. Serial No. 533,981. 9 Claims. (Cl. 219-8.)

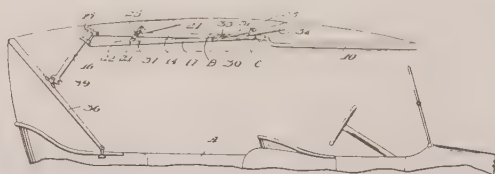
1. An electrode for electric arc welding composed of tungsten.

- 1,423,915. STOCK FEEDER. ARTHUR J. DAVIS, Cedar Rapids, Iowa. Filed Apr. 17, 1920, Serial No. 374,545. Renewed June 15, 1922. Serial No. 568,583. 4 Claims. (Cl. 119-53.)



1. In a stock-feeder, a continuous quadrangular trough, an inside pyramid to divert food thereto, standards adjacent to the corners of the pyramid, a magazine surrounding said pyramid and spaced away therefrom at the bottom, and flexible and adjustable means for suspending the magazine, connecting each corner thereof with an adjacent standard.

- 1,423,916. ONE-MAN AUTOMOBILE TOP. JAMES DAVIS, Gananoque, Ontario, Canada. Filed Apr. 18, 1921. Serial No. 462,293. 3 Claims. (Cl. 296-116.)

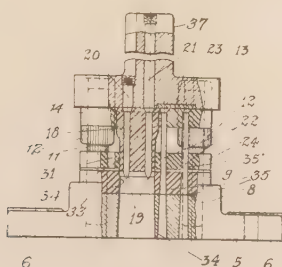


1. The combination with an automobile cover, of a back bow pivotally mounted at the lower end to an automobile, a bow pivotally mounted on the back bow intermediate of the length thereof, and formed with an internal apertured lug, a bracket on the said bow having lugs, a front bow having its inner end formed with a flanged extension, and T-shaped in cross section, levers connecting the flanged extension of the front bow to the said bracket lug, offset links pivotally mounted on one of the levers, the said links being provided with elongated slots, pins on the other lever engaging the slots, short bows carried by the links, and a pin on one of the levers designed to engage the apertured lug on the first said bow in collapsed position of the top.

- 1,423,917. PUNCH AND DIE SET. SIDNEY DIAMANT, New York, N. Y. Filed Apr. 23, 1921. Serial No. 464,045. 3 Claims. (Cl. 164-29.)

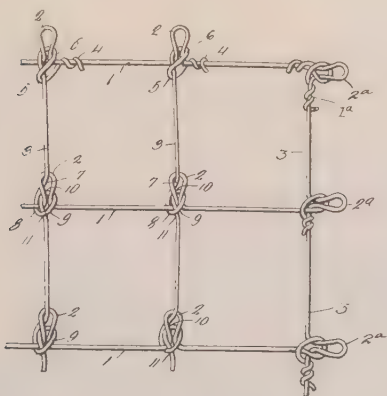
1. A punch and die set comprising a die holder, a die blank arranged upon said holder, a stripper plate adapted

to be secured upon the die blank in superposed relation thereto, said die holder having spaced openings, a punch holder, liner pins carried by the punch holder and engaged in said spaced openings, a punch plate secured to the punch holder, a punch mounted in the punch plate and adapted to operate through the stripper plate, said stripper plate having a longitudinally extending recess in its bottom face through which the work piece is adapted to



be moved, an automatic stop lever pivotally mounted intermediate of its ends and having one end movable through the stripper plate and across said recess to limit the movement of the work piece in said recess and an adjustable screw carried by the punch holder to engage the other end of the lever and displace the same from its normal position to permit of the adjustment of the work piece in said recess.

1,423,918. BED-BOTTOM FABRIC. EDWARD DREFFS, Milwaukie, Oreg. Filed Dec. 31, 1919. Serial No. 348,558. 1 Claim. (Cl. 245—8.)

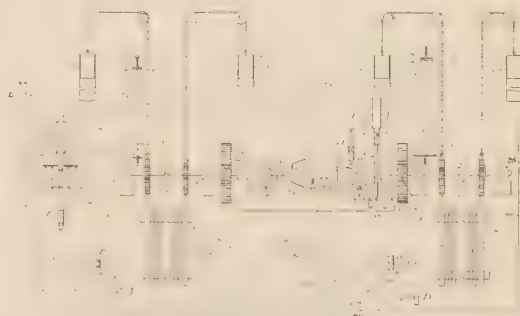


A wire fabric embodying crossed wires, one of said wires being bent to provide a loop, a second wire threaded through the loop from one side thereof to the other to engage opposite sides of the loop, said second strand of wire being extended toward the mouth of the loop and bent to form a coil therearound, said second strand of wire being then extended over the first wire and through said coil between portions of the loop and coil to form a knot around the mouth of the loop to close the same.

1,423,919. AUTOMATIC GATE MECHANISM FOR ELEVATOR AND MINE SHAFTS. CHARLES DRUM, California, Pa. Filed Dec. 19, 1919. Serial No. 346,036. 14 Claims. (Cl. 187—52.)

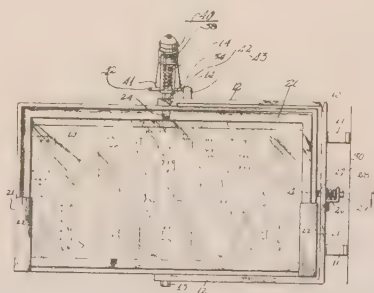
6. An operating mechanism for a plurality of gates, for elevator cages, comprising a motor, means for driving one of said gates by the motor, means for driving another of said gates by the motor, circuit closing devices actuated by the cages for controlling the operation of the

motor, means controlled by one of said circuit closing devices for operatively connecting the driving means for



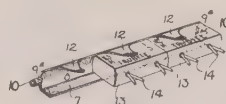
one of said gates to the motor, and means for preventing the operation of said motor until after said connection has been made, substantially as described.

1,423,920. DEVICE FOR HOLDING ENGINEERS' TIME TABLES. VERN W. DUFF, Moberly, Mo. Filed Feb. 7, 1921. Serial No. 443,170. 6 Claims. (Cl. 40—105.)



1. In a device of the class described, a bracket, a frame pivoted therein, one of said pivots comprising a pin rigidly secured to said frame, a lamp bracket pivoted on said pin, means for frictionally engaging said bracket and said pin so that as the said frame is rotated, the said bracket will be rotated.

1,423,921. MOLD GUIDE FOR ARTIFICIAL TEETH. CHARLES J. DUFFY, Yonkers, N. Y., assignor to The Dentists' Supply Company, a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,524. 5 Claims. (Cl. 211—34.)



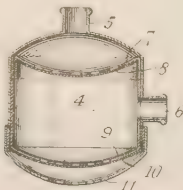
2. The invention according to claim 1, wherein the detachable teeth supporting frames are hinged in parallel relation at a distance apart, so as to avoid direct contact but sufficiently close that the artificial teeth carried on the blocks of one supporting frame will overlap and rest upon the next adjacent supporting frame, whereby said teeth are fully exposed to inspection.

1,423,922. PROCESS FOR THE MANUFACTURE OF BRASS. PAUL DUROIT, Lausanne, Switzerland, assignor of one-third to Alexis Boever, Lausanne, Switzerland. Filed Sept. 10, 1919. Serial No. 322,924. 3 Claims. (Cl. 75—1.)

1. The hereinbefore described process of manufacturing brass from raw elements, consisting in raising the

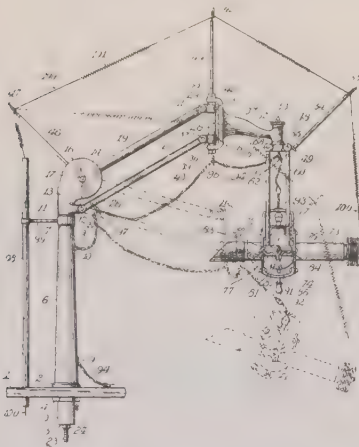
temperature of a salt sufficiently to make the same a molten mass, and introducing into the molten mass of salt in relatively small quantities at a time the raw materials in order that the heat of the molten salt bath may be utilized in melting the metal, the density of the salt being intermediate that of the raw elements and the slags thereof, whereby the metal is retained in the bath and the slags rise to the surface thereof.

- 1,423,923. DIVING APPARATUS. JAMES CLENDENIN ECKERT, Jr., Stamford, Conn. Filed Apr. 28, 1921. Serial No. 465,306. 3 Claims. (Cl. 61-70.)



1. In a diving apparatus of the kind herein described, a valve adapted for use and connection with the flexible tubing between the floating air vessel and the diver, comprising a receptacle with two partitions having valves therein opening away from the inlet at the top which is adapted for connection with the floating air vessel, the bottom of said receptacle containing perforations and a side outlet between said two partitions.

- 1,423,924. ADJUSTABLE X-RAY-TUBE HOLDER. EDWIN L. EDWARDS, Indianapolis, Ind., assignor to Edwards X-Ray Corporation, Indianapolis, Ind., a Corporation of Indiana. Filed Mar. 20, 1920. Serial No. 367,301. 15 Claims. (Cl. 250-34.)

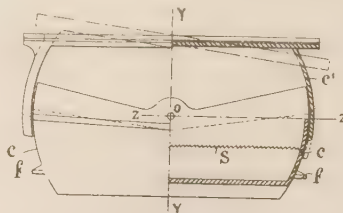


1. An X-ray tube holder including an arm, a hanger head connected to the arm and having four pivots on one and the same horizontal plane thereon, four hanger rods connected to and extending downward from the pivots respectively, and an X-ray tube frame provided with four pivots on one and the same horizontal plane and supported by the lower portion of the hanger rods respectively.

- 1,423,925. RECEIVER AND STENCH TRAP FOR SEWERS. JEANTY ETCHEBÉHÈRE, Biarritz, Basses-Pyrénées, France. Filed Mar. 30, 1921. Serial No. 456,932. 3 Claims. (Cl. 182-19.)

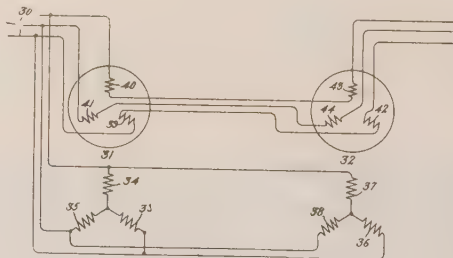
1. In a sewer mouth, a basin, a longitudinal partition in said basin, ears on the outer face of said basin adapted

to be engaged in the masonry, a cover, also provided with a partition, said partitions being secured together by



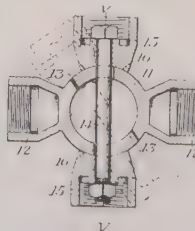
means of a bolt, and a perforated plate covering the sewer top.

- 1,423,926. VOLTAGE-REGULATING SYSTEM. GIUSEPPE FACCIOLI, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Aug. 31, 1921. Serial No. 497,232. 3 Claims. (Cl. 171-119.)



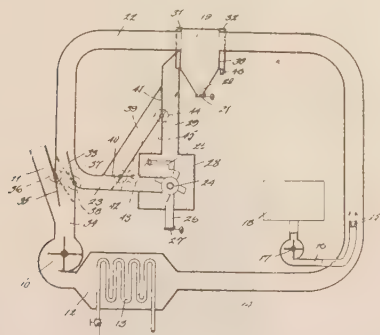
1. In combination, an alternating current circuit and voltage regulating means therefor comprising a plurality of induction regulators having interconnected windings and independently rotatable rotors so that voltages varying in magnitude and phase are produced in said circuit by varying the relative positions of the rotors of said induction regulators.

- 1,423,927. FITTING FOR RAILINGS AND THE LIKE. ANDREW FALK, Pittsburgh, Pa., assignor of three-tenths to Michael Pfaff, Homestead, Pa. Filed May 31, 1919. Serial No. 300,910. 4 Claims. (Cl. 287-54.)



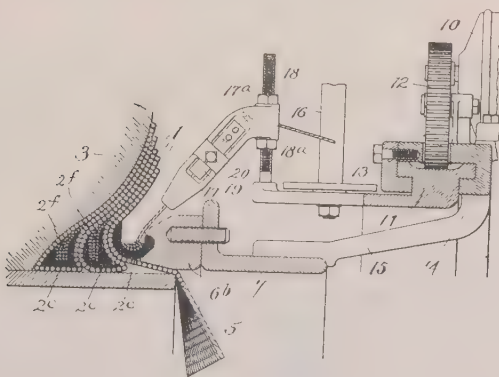
1. An adjustable fitting device for inclined railings and the like, comprising a hollow body portion having a socket member integral therewith and having a slot for the attachment of an adjustable socket member, an adjustable socket member, and a T-shaped bolt extending from the adjustable socket member through the slot and having its head received in the hollow body portion, the head of the bolt being oblong and longer than the width of the slot, and the inside of the body portion at the sides of the slot being formed to engage the ends of the bolt head and prevent it being turned, substantially as described.

- 1,423,928. DRYING PROCESS AND APPARATUS. CROSBY FIELD, Washington, D. C., assignor to Chemical Machinery Corporation, New York, N. Y. Filed Jan. 21, 1919. Serial No. 272,287. 5 Claims. (Cl. 127--9.)



1. In a drying apparatus, a conduit, means for supplying a heated drying medium to said conduit, means for spraying the material to be dried into the drying medium, a primary collector for the dried material interposed in said conduit, a secondary collector connected to said conduit in spaced relation to the primary collector, and optionally operable means for either recirculating the drying medium through said conduit and the primary collector, but not through the secondary collector or for directing the drying medium through the secondary collector.

- 1,423,929. METHOD OF AND APPARATUS FOR FORMING A TIRE BEAD. WILLIAM G. FORDING, Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 19, 1916, Serial No. 104,391. Renewed Mar. 20, 1922, Serial No. 545,345. 21 Claims. (Cl. 154--14.)

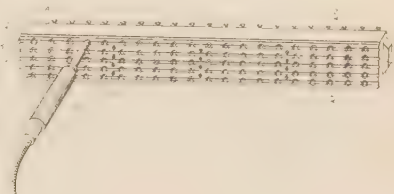


1. The method of forming a tire bead which comprises winding a plurality of turns or convolutions of bead-forming material in an annular space of a partially formed tire carcass while the latter is being built up on a tire-forming core.

- 1,423,930. TELEPHONE SWITCHBOARD APPARATUS. BRUCE FREILE, Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 30, 1920. Serial No. 406,982. 2 Claims. (Cl. 179--91.)

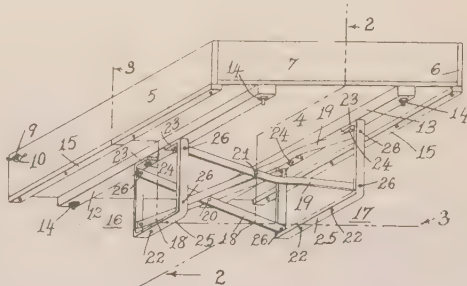
1. A test block comprising a plurality of parallel rows of conductive bars placed side by side, each conductive bar terminating at one end in a grooved contact face, and at the other end terminating in a lug adapted to receive

conductor wiring; and a block of insulating material in which said bars are insulatingly imbedded said block being



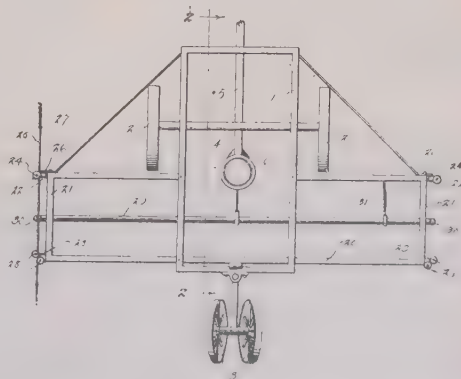
provided with a groove for each row of conductive bars, said groove registering with the grooves in the contact faces of the said conductive bars in each such row.

- 1,423,931. TRUCK ATTACHMENT FOR AUTOMOBILES. DANIEL J. FUHRER, Leanna Township, Logan County, Ill. Filed Feb. 23, 1922. Serial No. 538,727. 1 Claim. (Cl. 296--28.)



A truck attachment comprising a box-like body; two parallel longitudinal sills and two marginal longitudinal battens fixed on and strengthening the body; a relatively narrow leg comprising a horizontal member provided with holes to receive attaching bolts, and vertical members secured on one sill; a relatively wide leg comprising a horizontal member provided with holes to receive attaching bolts and vertical members secured on the other sill; crossed straight braces connecting one vertical member of each leg on one side; and crossed braces connecting the other vertical member of each leg and curved to accommodate a can or the like.

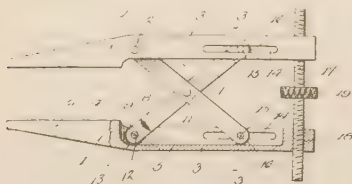
- 1,423,932. CORN PLANTER. PERRY I. GARNER, Eureka, Kans. Filed July 30, 1920. Serial No. 400,061. 1 Claim. (Cl. 221--121.)



In a planter, a seed box, a seed plate pivoted thereto, a spring for retaining said seed plate in a closed

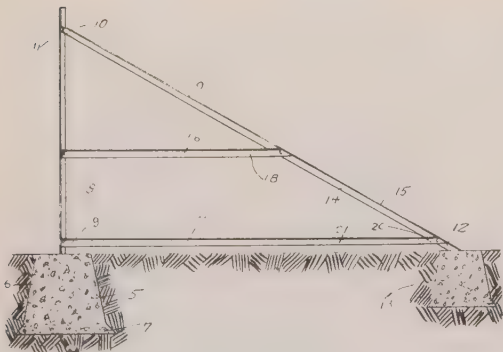
position, an oscillatory shaft, means connecting said shaft and said seed plate for operating the latter, and a coiled spring connected to the shaft and planter for returning the oscillatory shaft to a normal position whereby the seed plate may be closed by its spring.

1,423,933. CLAMP. WILLIAM C. HEATLIE, Beverly, Mass. Filed July 6, 1921. Serial No. 482,864. 1 Claim. (Cl. 144—297.)



In a clamp, a pair of jaw members having channels in their opposing sides, spaced pairs of crossed pivoted toggle levers disposed between said members, pivot pins extending between the ends of the levers and provided with bearing elements coating with the bottom walls of the channels of the members, the walls of the channels being formed with longitudinal slots, the pivot pins at the forward ends of the levers being engaged in openings in the side walls of the channels and the pivot pins at the rear ends of the levers being slidably engaged in the slots in the respective channels, and means for relatively adjusting the said jaw members.

1,423,934. FENCEPOST. WILLIAM P. HECKLER, Napoleon, Ohio. Filed May 14, 1921. Serial No. 469,545. 1 Claim. (Cl. 189—31.4.)



A fence post of the character described comprising an elongated standard formed substantially L-shaped in cross section, to provide right angular flanges, an elongated primary brace member formed substantially L-shaped in cross section to provide right angular flanges, the end portion of one flange of the primary brace member being connected to the end portion of one flange of the standard, a multiple of secondary brace members, each secondary brace member being formed substantially L-shaped in cross section to provide right angular flanges, one end portion of one flange of each of the secondary braces being pivoted to the standard intermediate its ends, the opposite end of said flange of the secondary braces being beveled and detachably connected to the primary brace, the remaining flange of each of the secondary braces

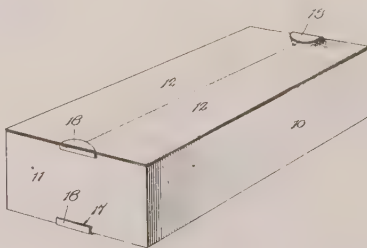
having one end thereof engaged with the remaining flange of the primary brace to prevent relative movement of the secondary braces and primary brace, said secondary braces being detachable from the primary brace to permit movement of the primary brace and secondary braces substantially into parallel relation with the standard.

1,423,935. PUMP. RICHARD F. HOPKINS and ORIAN F. DEVOLLD, Bartlesville, Okla. Filed Oct. 24, 1921. Serial No. 509,931. 4 Claims. (Cl. 103—80.)



1. In a pump for oil wells, an outer casing, a working barrel arranged in the lower portion thereof, a traveling tube mounted therein, valves arranged in said barrel and tube, and a floating tube arranged in said casing and surrounding the upper portion of said working barrel.

1,423,936. STORAGE FILE. SAMUEL C. HUFFMAN, Lincoln, Nebr. Filed Feb. 26, 1921. Serial No. 447,914. 3 Claims. (Cl. 229—47.)

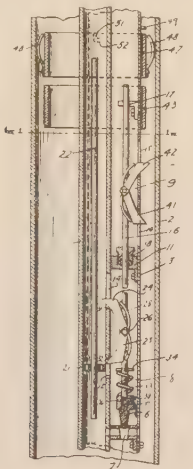


1. A storage file including a box body having a closure flap and provided in a wall thereof with a slot, and a substantially U-shaped clip having one wing thereof extending through said slot and the other wing thereof overlying said flap securing the flap closed, the clip being freely removable bodily to release said flap.

1,423,937. TUBING BLEEDER. GEORGE C. IRONS, McKittrick, and ALBERT LARSON, Bakersfield, Calif. Filed Aug. 8, 1921. Serial No. 490,760. 4 Claims. (Cl. 103—60.)

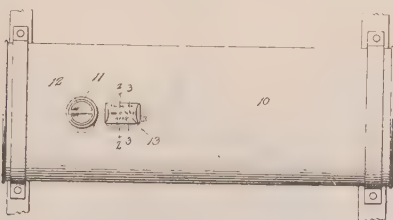
1. Valve actuating means, comprising a stationary element, a valve stem and sliding means mounted in opposite

sides of the stationary element and means associated with the valve-stem adapted to be engaged by the sliding means



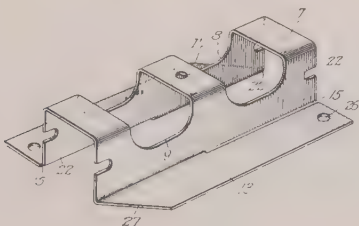
for actuating the valve and to be disengaged from the sliding means by the stationary element.

1,423,938. NUMBER PLATE FOR MOTOR-VEHICLE FUEL TANKS. NICHOLAS W. JACOBS, Stanton, Nebr. Filed May 6, 1921. Serial No. 467,443. 3 Claims. (Cl. 40—20.)



1. In a device of the character described, a plate, and fastening means coacting with the plate at one side thereof, the plate being provided with an opening entering through its opposite side whereby means may be introduced through the plate to coact with said fastening means for locking the plate upon the fastening means.

1,423,939. PLASTER-BOARD SUPPORT. MARVIN H. JESTER, Philadelphia, Pa. Filed Feb. 2, 1920. Serial No. 355,866. 10 Claims. (Cl. 72—122.)

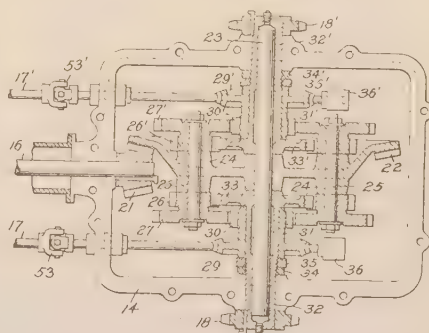


1. A plaster board support comprising a series of clip members arranged in spaced relation, each provided with plaster board supporting clips, and a series of wire loops, each embracing two of said members to maintain the members in definite spaced relation.

5. A plaster board support, comprising a channel-shaped member provided with laterally extending flanges, said

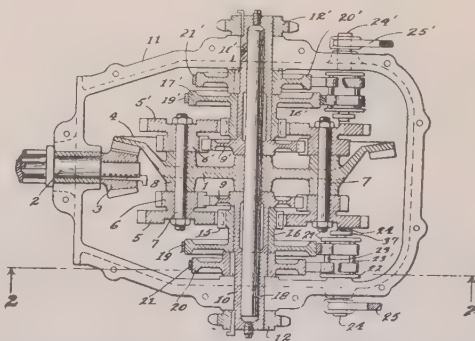
flanges being free from the walls of said member throughout a portion of their length permitting said free portions to be folded upon the remaining portions into plaster board supporting position.

1,423,940. DIFFERENTIAL TRANSMISSION MECHANISM. GEORGE C. JETT, Watertown, Wis., assignor, by mesne assignments, of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Filed June 8, 1918. Serial No. 238,977. 38 Claims. (Cl. 180—17.)



1. In a vehicle, the combination with a power plant and a pair of driven members, of a differential transmission comprising main and auxiliary drive mechanisms delivering power to said members and provided with means whereby said mechanisms are capable of being simultaneously or independently actuated to increase or decrease the common rate of speed of said driven members, when the vehicle is moving in a straight line, said auxiliary mechanism consisting of gearing sets adapted when independently actuated by said plant to create a variance in the speed ratios of said driven members to turn the vehicle.

1,423,941. DIFFERENTIAL MECHANISM. GEORGE C. JETT, Milwaukee, Wis., assignor, by mesne assignments, of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Filed Oct. 31, 1918. Serial No. 260,581. 7 Claims. (Cl. 180—17.)

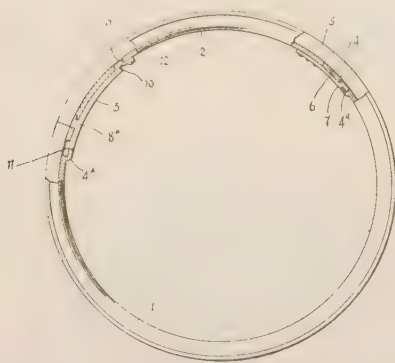


1. In a driving mechanism the combination of a driving means, a driven shaft, differential mechanism between said driving means and said driven shaft, including a rotatable member and means for controlling the rotation of said member, means for controlling the rotation of said shaft, and a single means for controlling both of said controlling means.

1,423,942. DEMOUNTABLE TIRE RIM. JOSEPH H. JONES, Cleburne, Tex. Filed Sept. 18, 1919. Serial No. 324,525. 1 Claim. (Cl. 301—31.)

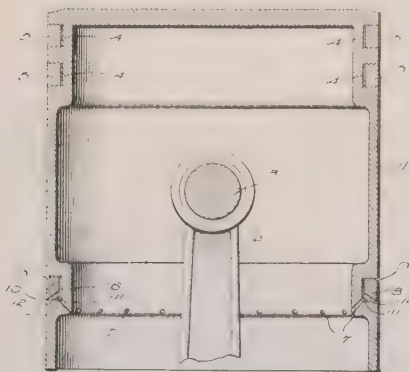
A demountable tire rim, comprising a main circular portion, a segment, and a link member; said circular portion

having a socket on each end with a lip overhanging the socket; said segment having an arm projecting from one end and provided with an angular flange adapted to be conformably received into and engage with one of said sockets on the circular portion; the opposite end of the segment



having a socket with an inwardly extending recess and a socket set inwardly therefrom; said link having angular projections on each end and an intermediate projection, said projections adapted to be conformably received into the sockets in the rim and segment and means for locking the link and segment in position.

1,423,943. PISTON RING. THOMAS B. JONES, Turlock, Calif. Filed May 25, 1921. Serial No. 472,333. 2 Claims. (Cl. 74—109.)

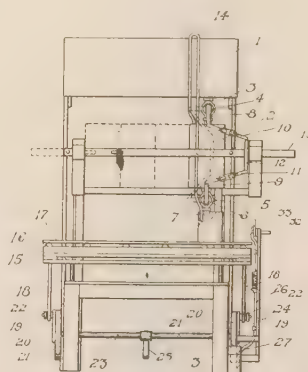


1. A piston ring comprising a body portion having parallel front and rear walls and parallel top and bottom forming relatively sharp corners at the inner upper edge and lower outer edge, said ring being provided with an outer upper beveled edge and a lower inner beveled edge.

1,423,944. CAN-FILLING APPARATUS. WILLIAM L. JONES, Gallipolis, Ohio. Filed Jan. 23, 1918. Serial No. 213,302. 3 Claims. (Cl. 226—127.)

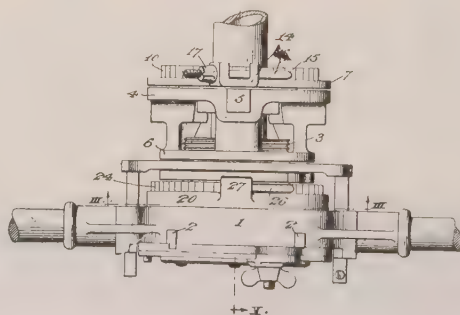
1. Apparatus for filling cans comprising a main reservoir, a plurality of intermediate feed tanks positioned directly below said reservoir, a delivery nozzle for each feed tank, a separate inlet nozzle connecting each intermediate tank with said reservoir, valves controlling the said nozzles whereby when one set of nozzles is closed the other set is open, and a vent pipe extending from each intermediate tank to a point above the highest liquid level in said main reservoir and having its inlet end terminating immediately below the delivery nozzle of each intermediate tank and of such construction in rela-

tion to said delivery nozzle that it will enter the receptacle to be filled, whereby the filling of said receptacle will finally bring about cutting off of the intermediate tank



from the atmosphere which will be immediately followed by a complete cessation of flow to the said receptacle by the covering of the end of the said delivery nozzle.

1,423,945. DIESTOCK. JOSEPH KONIGSBERG, New York, N. Y., assignor to Lena Konigsberg, New York, N. Y. Filed Aug. 24, 1920. Serial No. 405,574. 7 Claims. (Cl. 10—123.)

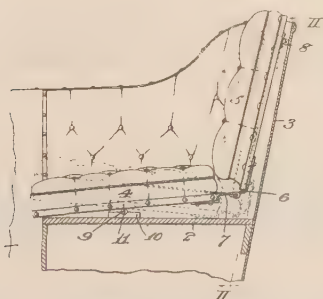


4. The combination with a stock having a leader screw, of one centering device located at a distance from the cutting chasers, said device comprising a plurality of radially movable blocks having a common operating means, said means being controlled by a ratchet and pawl connection for maintaining said blocks in a relatively fixed position, and another centering device carried by the leader screw located in close proximity to the cutting chasers and between the first named device, said intermediate device comprising a plurality of swingingly movable arms having a common operating means, said means being controlled by a ratchet and pawl connection for maintaining said arms in a relatively fixed position.

1,423,946. SHOCK ABSORBER. JOSEPH KONIGSBERG, New York, N. Y., assignor to Lena Konigsberg, New York, N. Y. Filed May 14, 1921. Serial No. 469,557. 2 Claims. (Cl. 155—9.)

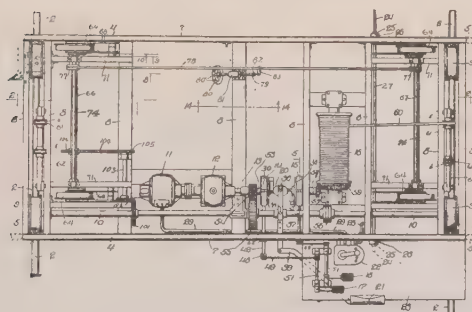
1. In an automobile, fixed seat and back supports, a seat, a rocking connection between the bottom of the seat and the top of the support spacing the seat from the support, the engagement of front and back portions

of the bottom of the seat with its support serving to limit the rocking movement of the seat, a back connected at its bottom to the back of the seat, and an antifriction



connection between the top of the back and its support whereby a combined rocking and vertically reciprocating movement is imparted to the back by the rocking of the seat.

1,423,947. POWER TRUCK. JULIUS KRAMER, FRED O. KUEHNE, Jr., and WALTER H. KOPPLIN, Chicago, Ill., assignors to Pullman Davenport and Upholstered Furniture Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 19, 1922. Serial No. 530,272. 8 Claims. (Cl. 105-177.)

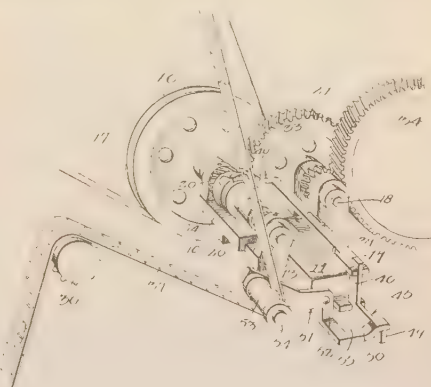


1. A transfer truck having two sets of wheels arranged to travel on separate tracks respectively which are disposed at an angle, and means for adjusting the elevation of one of said sets of wheels relative to the car body, the said one set of wheels being mounted on vertically movable parallel axes, and links being provided for each of the movable axes, said links each having one end secured by a pivot which is stationary relative to the truck frame, and the other end being attached to the corresponding movable axis, and rotary lifting means arranged to coact between the movable ends of said links respectively and the frame of the truck.

1,423,948. AUTOMATIC STOP FOR MOVING-PICTURE MACHINES. JAMES BERNARD KUHN, Cameron, W. Va. Filed Aug. 8, 1921. Serial No. 490,620. 3 Claims. (Cl. 88-17.)

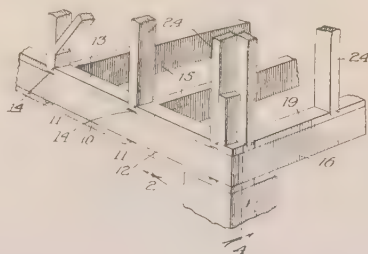
1. An automatic stop for motion picture machines comprising a shaft, a clutch section mounted thereon, a longitudinally movable arm having a fork engaging said

clutch section, a bell crank engaged with said arm and a film engaging member detachably engaged with said



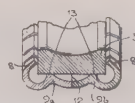
crank and adapted to swing the same on its pivot when the tension on the film exceeds a predetermined point.

1,423,949. BUILDING CONSTRUCTION. EDWARD A. LAUGHLIN, Port Arthur, Tex. Filed Feb. 2, 1921. Serial No. 441,724. 8 Claims. (Cl. 20-1.)



1. In a building construction, sills notched at regular intervals on their upper faces, plates notched at corresponding and registering regular intervals on their lower faces, and joists embraced at their ends in the respective pairs of notches thereof.

1,423,950. ANTIFRICTION BALL OR ROLLER BEARING. KARL OSKAR LEON, Stockholm, Sweden, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Filed Nov. 3, 1919. Serial No. 335,460. 4 Claims. (Cl. 64-36.)



1. The combination with antifriction ball or roller bearing, of means for rendering said bearing resilient including a surrounding supporting ring provided with inwardly directed yielding flanges, said flanges sloping relatively to the side surfaces of the race ring so as to form hollow spaces between the flanges and the adjacent surfaces of the outer race ring.

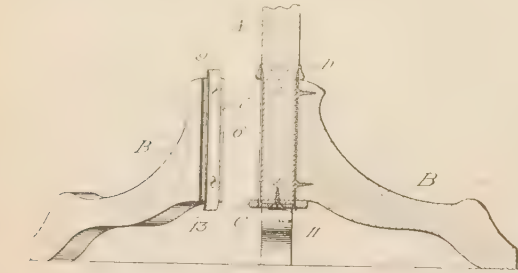
1,423,951. PEDESTAL. JOHN LURTZ, Chicago, Ill. Filed Oct. 22, 1921. Serial No. 509,667. 2 Claims. (Cl. 155-138.)

1. In combination, a recessed base, a leg, and a connection therebetween comprising a plate secured to the

leg and adapted to lie freely within the base recess, and two members carried by the base, one stationary and the

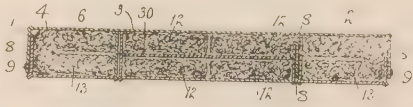
locking means for rendering one of said series inaccessible, and the two series arranged whereby the inaccessible units are visible singly only when the corresponding accessible unit is exposed.

1,423,954. MATTRESS. FREDERICK MAUSSNER, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Filed July 10, 1920. Serial No. 395,324. 2 Claims. (Cl. 5—13.)



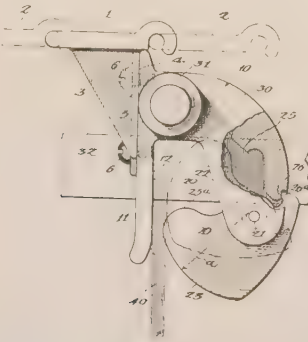
other slidable thereupon, each of said members being adapted to overlies an opposite end of the plate to lock the same to the base, substantially as described.

1,423,952. PAPER-CONVEYING MECHANISM. JAMES D. McCracken, Cincinnati, Ohio, assignor to The United States Playing Card Company, Norwood, Ohio, a Corporation of Ohio. Filed June 9, 1921. Serial No. 476,332. 7 Claims. (Cl. 271—79.)

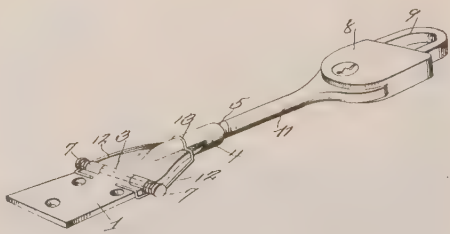


1. A mattress or the like comprising, a casing divided into sections each of which forming a compartment, said sections adapted to be arranged edge to edge, one of said compartments being a multiple of a smaller compartment, removable filling portions arranged in superimposed layers within each compartment, and said filling layers adapted to be interchangeable by placing the upper and lower filling layers of the smaller compartment in the same plane to form an upper or lower filling layer for the larger compartment and by placing an upper or lower filling layer of the larger compartment in different planes within the smaller compartment to form upper and lower filling layers.

1,423,955. AUTOMOBILE LOCK. STANLEY G. MILLER, Chatham, Ontario, Canada. Filed May 28, 1921. Serial No. 473,289. 1 Claim. (Cl. 70—128.)

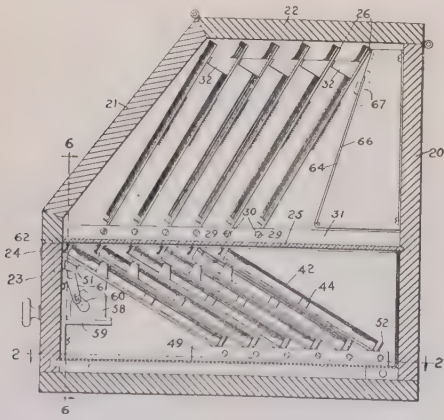


1. A unit carrier link, comprising a detachable link section, a housing detachably secured to said link section, and gravity-actuated clamping means carried by said housing.



In a lock for automobiles, the combination with a support, of a padlock provided with a shank and a shackle, the latter adapted to embrace a controlling member of the automobile to be locked, a hinge operatively connecting the shank and the support, whereby the shank may assume a substantially perpendicular position adjacent the face of the support, a spring member substantially U-form having its transverse portions engaged with the shank and the extremities of its arms engaged with said support, the arms of the spring member having at their substantially intermediate portions spring coils operatively connected to the hinge pins of the hinge for holding the shank in a substantially perpendicular position adjacent the stationary part of the automobile, when the shackle of the padlock is disengaged from said controlling member.

1,423,953. CREDIT-ACCOUNT REGISTER. HAAKON A. MARTIN, Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Filed Apr. 8, 1916, Serial No. 89,774. Renewed Sept. 26, 1919. Serial No. 326,557. 28 Claims. (Cl. 45—2.)

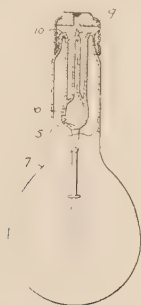


1. A filing device comprising two series of corresponding filing units movable independently of each other,

1,423,956. TIPLESS INCANDESCENT LAMP AND SIMILAR ARTICLE. LORIS EDWIN MITCHELL and ARTHUR JAMES WHITE, Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Filed Mar. 20, 1919. Serial No. 283,801. 24 Claims. (Cl. 176—36.)

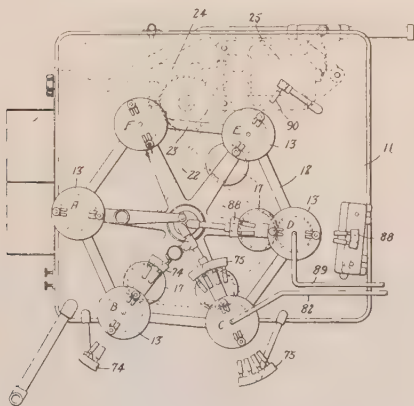
1. The method of glass working which comprises inserting a glass tube into another hollow glass body, ap-

plying heat to cause the formation of a solid glass mass closing off the tube and glass body and then forming a



passage extending entirely through said mass and communicating with the passage in said tube.

1,423,957. STEM-MAKING MACHINE. LORIS EDWIN MITCHELL and ARTHUR JAMES WHITE, Cleveland, Ohio, assignors to General Electric Company, a Corporation of New York. Original application filed Mar. 20, 1919, Serial No. 283,801. Divided and this application filed June 24, 1920. Serial No. 391,503. 18 Claims. (Cl. 49—2.)

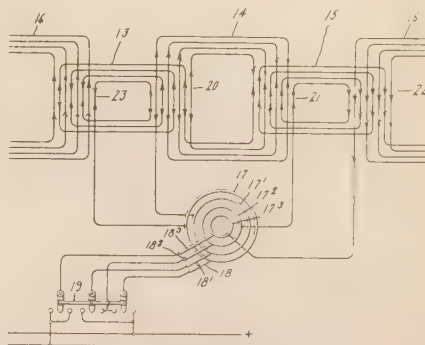


8. In a machine for making parts for lamps and similar articles, the combination of a rotatable carrier, a rotatable head thereon for supporting tipless stem parts comprising means for supporting a stem tube, means for supporting an exhaust tube within said stem tube, means for supporting leading-in wires between said exhaust tube and said stem tube and means for supporting a glass rod with an end thereof aligned with the ends of said stem tube and said exhaust tube, means for rotating said head, means for fusing the aforesaid parts at their aligned ends, means for clamping the fused mass thus produced to form a seal about the leading-in wires, means for fusing said tubes adjacent to said seal, and means for directing a flow of gas into the open end of said exhaust tube to expand and form an aperture in said fused portion.

1,423,958. DYNAMO-ELECTRIC MACHINE. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,483. 2 Claims. (Cl. 172—274.)

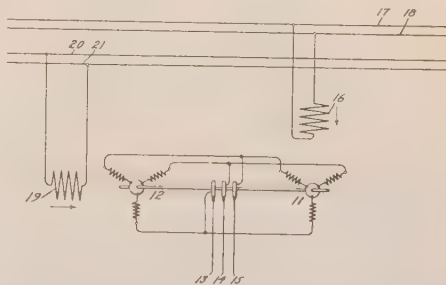
2. In a dynamo electric machine, a field member comprising a magnetic core n , distributed exciting winding adapted to be supplied from a source of direct current and arranged in slots in said core, each of said slots

carrying conductors belonging to adjacent exciting windings, means for reversing the direction of current flow



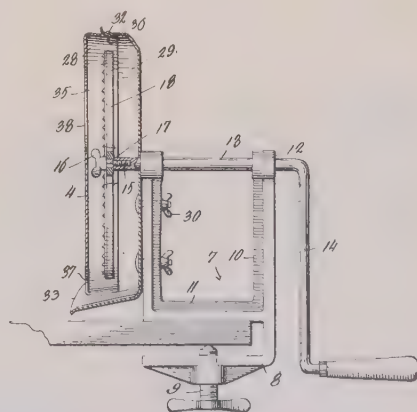
in alternate pairs of exciting windings, whereby the number of poles produced may be made either n or $\frac{n}{2}$.

1,423,959. FREQUENCY CHANGER. ALBERT H. MITTAG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,695. 7 Claims. (Cl. 172—281.)



2. In a frequency changer, in combination, a pair of single phase induction motor elements comprising a pair of parallel connected secondary members, primary members cooperating therewith, said secondary members being relatively movable as a unit with respect to the primary members, means for supplying said primary members with dephased currents and taps from the connections of said secondary members for supplying an external load.

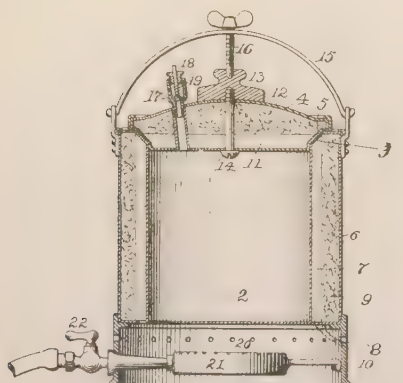
1,423,960. VEGETABLE CUTTER. ANDREY I. MOHNACS, Passaic, N. J. Filed Jan. 28, 1922. Serial No. 532,380. 2 Claims. (Cl. 146—11.)



2. A vegetable cutter comprising an attaching device including a bearing, a shaft journaled therein, a cutting

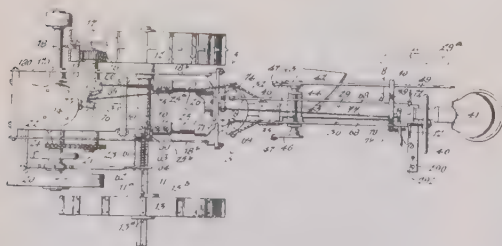
element carried by the shaft, a casing enclosing the cutting element and consisting of front and rear detachable concentrically arranged guards fitting one within the other, the rear guard having a central opening to fit upon the shaft and being secured to the attaching device, and one guard having a feed opening therein whereby the vegetables can be pressed into engagement with the cutting element.

1,423,961. COOKING UTENSIL. WILLIAM J. MURPHY, Philadelphia, Pa. Filed Oct. 14, 1918. Serial No. 258,003. 2 Claims. (Cl. 126—39.)



1. In a cooking utensil, a portable pot having a metal bottom unobstructed so as to be directly heated, a surrounding jacket of fixed form composed of refractory material tightly fitting to the outside walls of the pot, and an enclosing outer metal casing having a non-conducting packing extended about the refractory jacket, the said casing secured to the pot and mechanically holding the refractory jacket against downward displacement, combined with a hollow lid making a tight closure to the pot and also provided with heat non-conducting materials, and separate means carried by the pot to positively clamp the lid tightly in place, whereby a steam pressure may slowly build up within the pot after the same has been quickly heated and removed from the fire.

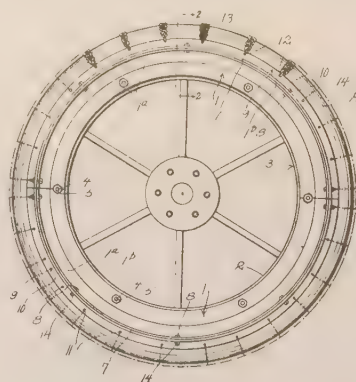
1,423,962. TRACTOR. FRED C. OLIN, Buffalo, N. Y. Filed May 15, 1920. Serial No. 381,620. 15 Claims. (Cl. 180—12.)



1. In a tractor, the combination of a main frame having traction wheels, a motor thereon, means for transmitting power from the motor to the traction wheels including a clutch, a supplemental frame pivotally con-

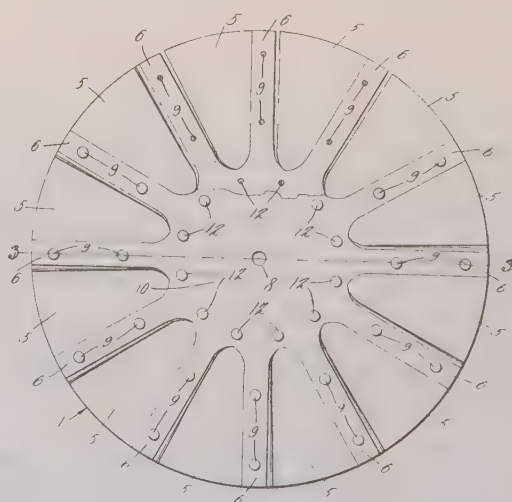
nected to said main frame, and means for operating said clutch including an actuating member carried by the main frame and having its axis arranged eccentric to the pivot of said main frame and supplemental frame, said actuating member being capable of a rotary and sliding movement and controlled from said last-named frame, the axis of the pivotal connection between the main and supplemental frames and the axis of the actuating member being parallel and vertical.

1,423,963. ANTISKID DEVICE. THOMAS J. O'NEIL, Pittsburgh, Pa. Filed Nov. 25, 1921. Serial No. 517,562. 3 Claims. (Cl. 152—14.)



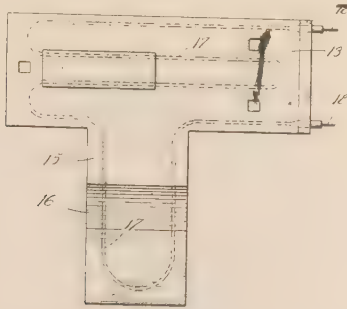
3. In combination with an automobile wheel, plates secured to said wheel at opposite sides thereof, arcuate strips detachably secured to said plates, and cross chains connecting said strips.

1,423,964. FAN WHEEL. RICHARD W. OSWALD, Pittsburgh, Pa. Filed July 13, 1921. Serial No. 484,475. 4 Claims. (Cl. 170—158.)



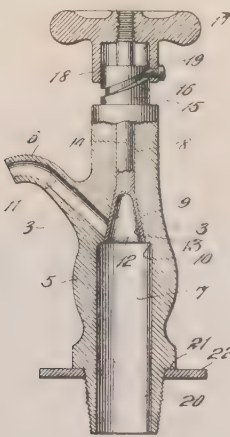
1. A fan wheel comprising like disks provided with arms and with blades projecting from the arms, the disks being placed together, to bring the arms into alinement; and means for connecting the disks.

1,423,965. TRACK SWITCH. JASON PAIGE, Evanston, Ill. Filed Dec. 24, 1921. Serial No. 524,572. 4 Claims. (Cl. 246—428.)



3. A slide plate for track switches comprising a body portion adapted to form a rail bearing, a lateral wing portion, and an electrical resistance element embedded therein and adapted to heat said slide plate.

1,423,966. VALVE. NICHOLAS PALMAFFY, West Orange, N. J. Filed May 14, 1919. Serial No. 297,029. 3 Claims. (Cl. 251—27.)

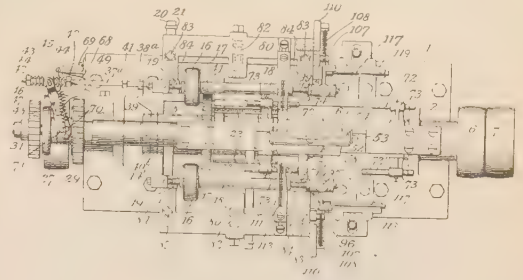


1. In a valve, a casing having a bore terminating at one of its ends in an elongated valve seat and a laterally extending outlet passage communicating with said seat, and a hollow conical valve member normally held upon said seat solely by fluid pressure acting against the inner surfaces of the valve walls, the walls of said conical valve member being imperforate and spaced from said seat when the valve member is in open position to permit passage of the fluid into the outlet, said imperforate wall extending circumferentially over the end of the outlet passage and closing the same when the valve is in its normal position.

1,423,967. COMB-CUTTING MACHINE. HERMAN SCHULHAMMER, Whitestone Landing, N. Y., assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed July 1, 1921. Serial No. 481,757. 19 Claims. (Cl. 144—26.)

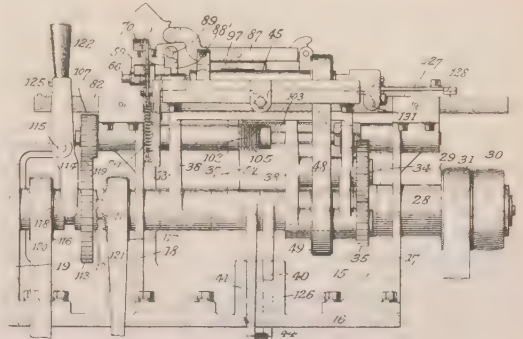
1. In a comb cutting machine, cutters for forming teeth in a comb blank, means for feeding said cutters longitudinally of said blank, and means for reversing the

longitudinal feed of said cutters on the completion of the cutting operation comprising a reversing clutch, and



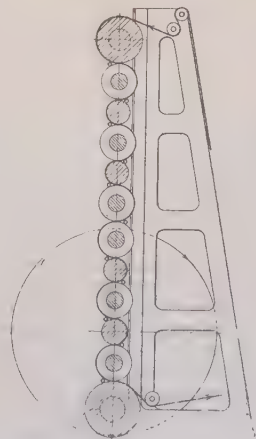
means operatively connecting said longitudinal feed means to said clutch.

1,423,968. COMB-CUTTING MACHINE. HERMAN SCHULHAMMER, Whitestone Landing, N. Y., assignor to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed Sept. 7, 1921. Serial No. 499,001. 17 Claims. (Cl. 144—26.)

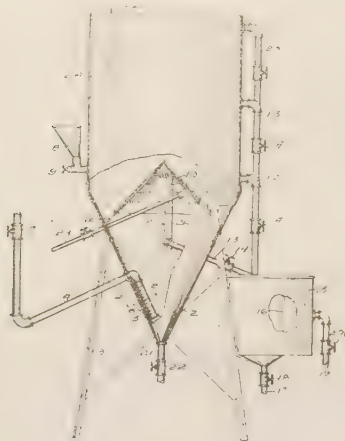


1. In a comb cutting machine, a cutter for cutting teeth in a comb blank, an oscillatory cutter carrying frame, a stop on said frame, and an H-shaped gauge plate arranged to allow said stop to clear the legs thereof during the cutting of said teeth, and to cause said legs to engage said stop for preventing further oscillation of said frames on the completion of the cutting operation.

1,423,969. MULTIPLE-ROLL SUPERCALENDER. CARL SCHÜRMANN, Dusseldorf, Germany. Filed Aug. 29, 1921. Serial No. 496,686. 3 Claims. (Cl. 92—73.)

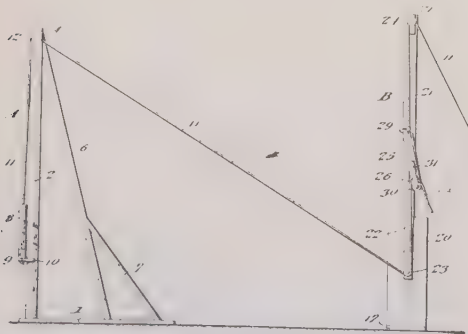


1,423,970. GASOLINE PURIFIER. WILLIAM J. SEDELBAUER, Toledo, Ohio. Filed Dec. 22, 1921. Serial No. 524,125. 1 Claim. (Cl. 210—58.)



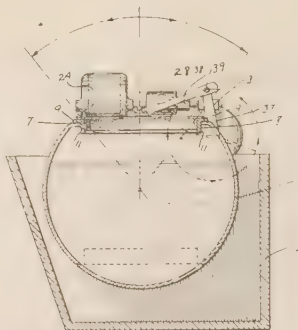
In a gasoline purifier, a tank having an inverted conical bottom portion, the cone forming the bottom having considerable altitude relative to its base, a pipe extending downward along the cone surface of the bottom portion of the tank to near the apex of the cone of the bottom of the tank, and having openings extending at an angle to the vertical plane passing through the axis of the cone of the bottom of the tank and the axis of the pipe, the cone member having its apex located above its base and the periphery of its base located near the base of the cone of the bottom portion of the tank and in spaced relation with respect to the cone of the bottom portion of the tank, the cone member having a plurality of openings, means for inserting a cleaning agent into the bottom portion of the tank, means for directing the material to be purified to the said pipe having the said openings, and means for drawing off the liquid at different levels.

1,423,971. HOISTING APPARATUS. CURTIS E. SMITH, St. Joseph, Mo. Filed Sept. 15, 1921. Serial No. 500,888. 6 Claims. (Cl. 254—139.)



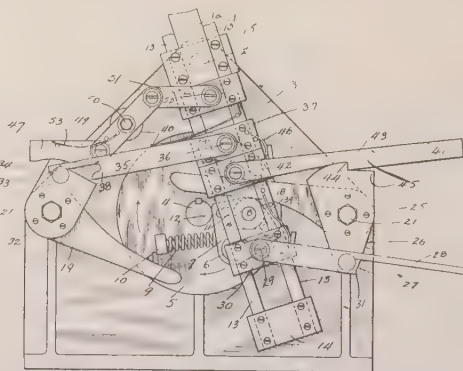
1. In a device of the class described, spaced supports provided with pulleys over which a cable is entrained, the cable being directed diagonally downward from the top of one support to the lower portion of the other support, then to the top of said support, the free ends of the cable being directed away from the tops of the supports, a load carrying member on one end of the cable adapted to engage one end of a load, and a second load carrying member connected to the cable intermediate its ends, adapted to engage the other end of the load, said cable moving both ends of the load simultaneously when one end of the load is moved in a predetermined direction.

1,423,972. WASHING MACHINE. ANDREW SORENSEN, Oakland, Calif. Filed June 16, 1921. Serial No. 477,966. 3 Claims. (Cl. 74—14.)



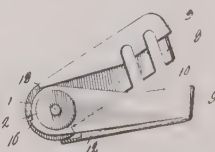
1. In a motor driven device a pivotally mounted element, a vertical arm secured thereto, a crank shaft mounted transversely to said arm, an operative connection between the crank shaft and the arm whereby a rocking motion is imparted to the latter, a spring latch for establishing and severing said connection and means for rotating the crank shaft.

1,423,973. MECHANICAL MOVEMENT. JAY C. STONE, Spokane, Wash. Filed Dec. 10, 1921. Serial No. 521,345. 5 Claims. (Cl. 74—14.)



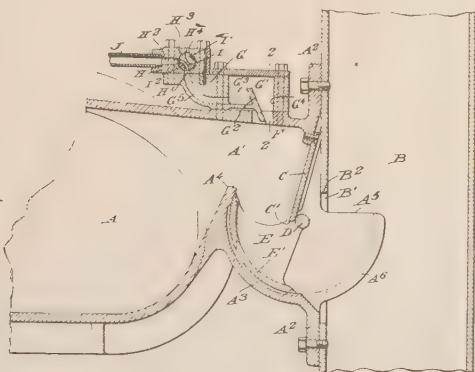
1. The combination with a pivoted operating lever, a rotary driven shaft and crank disk and a crank arm pivoted on said disk, of a slidable member carried by said lever and pivoted to said arm, a pair of opposed bell crank levers adapted to alternately engage said slidable member, and means actuated by said lever for actuating said bell crank levers.

1,423,974. CHAIN LOCK. LEO J. WAND, Elizabeth, Ill. Filed Oct. 28, 1921. Serial No. 511,085. 5 Claims. (Cl. 24—241.)



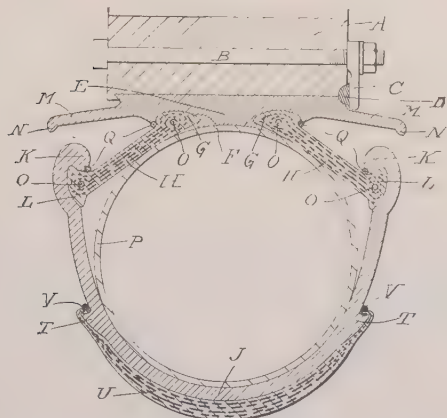
1. In combination, a pivot, an inner section pivoted on the pivot, an outer section comprising a pair of spaced plates connected at one end and fulcrumed on the pivot at their other ends, a spring extension formed on one longitudinal edge of one of the plates so as to extend over the longitudinal edge of the other plate and a shoulder formed on the pivoted end of the inner section for engagement with the spring extension.

1,423,975. WATER SEAL FOR GAS RETORTS. ARTHUR W. WARNER, Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J., a Corporation of New Jersey. Filed Nov. 2, 1918. Serial No. 260,839. 5 Claims. (Cl. 48—126.)



1. In combination with a gas retort and a standpipe, a downwardly inclined lateral conduit connecting the retort with the standpipe and so formed that liquids contained therein will flow freely into the standpipe, said conduit having a front wall extending down below the top of its rear wall and movable means operating to dam up liquid in the lower end of the inclined conduit to a height above the bottom of its front wall.

1,423,976. NONPUNCTURABLE TIRE. GEORGE A. WEBER, Stamford, Conn. Filed Feb. 21, 1919. Serial No. 278,384. 12 Claims. (Cl. 152—33.)

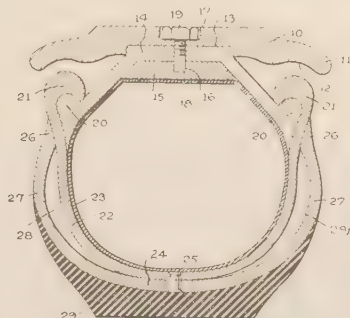


1. A tire having an outer metallic casing capable of enclosing a resilient medium, a rim having bearing portions adapted to cooperate with the substantially continuous inner edges of the casing if the resilient body should give way and permit contact between said bearing portions and edges, and resilient means for connecting the casing to the rim.

1,423,977. NONPUNCTURABLE TIRE. GEORGE A. WEBER, Stamford, Conn. Filed Nov. 7, 1919. Serial No. 336,489. 7 Claims. (Cl. 152—33.)

1. In a device of the class described, in combination, a rim, a metallic casing, a single unitary member interlocked

with said casing for centering said casing upon said rim, said metallic casing and said member forming a sub-

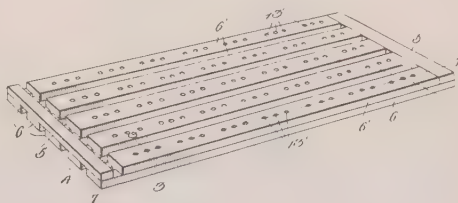


stantially unbroken interior chamber, and a resilient medium mounted within said chamber formed by said casing and said member.

1,423,978. PROCESS OF PREPARING CATALYZING MATERIAL. EZECHIEL WEINTRAUB, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 26, 1918. Serial No. 224,897. 3 Claims. (Cl. 23—28.)

3. The method of depositing nickel upon a fibrous support which consists in permeating said support with nickel carbonyl in the gaseous state under pressure less than atmospheric and then heating said carbonyl to the decomposition temperature.

1,423,979. SEED AND GROUND TESTER. JOSEPH BYRON WHITE, deceased, late of Clarion, Iowa, by Ida E. White, administratrix, Clarion, Iowa. Filed July 3, 1920. Serial No. 393,947. 3 Claims. (Cl. 47—30.)



1. A recording frame for use in testing seeds comprising an elongated strip provided at spaced points therealong with a plurality of series of openings, a second strip slidably mounted on the first named strip, said second strip being also provided with a plurality of series of openings, the series of openings of the second strip registering with the series of openings of the first strip when the second strip is moved in one direction.

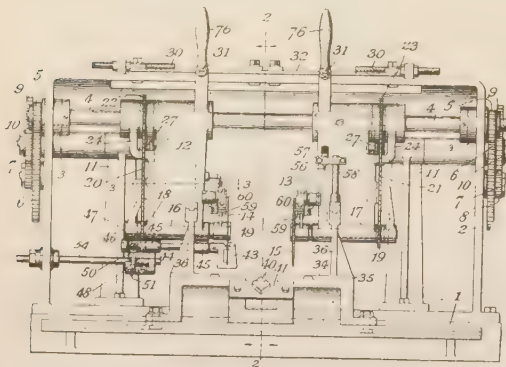
1,423,980. PRODUCTION OF DICARBOXYLIC ACIDS. ARTHUR G. WILLIAMS, Grantwood, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Mar. 22, 1921. Serial No. 454,479. 19 Claims. (Cl. 260—108.)

1. The process of producing a dicarboxylic acid from an aromatic compound containing a diketonic group,



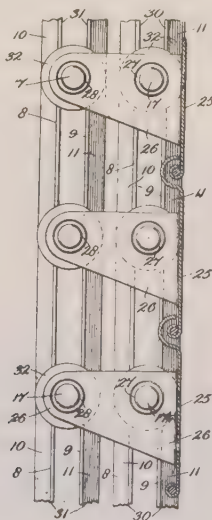
forming part of a carbocyclic ring structure, which comprises dissolving the said compound in a suitable alkaline reducing solution, and oxidizing the solution.

1,423,981. MACHINE FOR MAKING COMBS. CLAUDE E. WING, College Point, and HERMAN SCHELHAMMER, Whitestone Landing, N. Y., assignors to American Hard Rubber Co., New York, N. Y., a Corporation of New York. Filed Apr. 22, 1921. Serial No. 463,708. 13 Claims. (Cl. 144—26.)



1. A comb cutting machine comprising in combination a plurality of revoluble cutters, means for oscillating said cutters, and means for feeding said cutters simultaneously in opposite directions longitudinally of said machine.

1,423,982. SUPPORTING AND ACTUATING MEANS FOR AUTOMOBILE RADIATOR SHUTTERS. ARTHUR P. WOLFE, Lockport, N. Y., assignor to Harrison Radiator Corporation, a Corporation of New York. Filed Mar. 28, 1921. Serial No. 456,310. 10 Claims. (Cl. 189—62.)

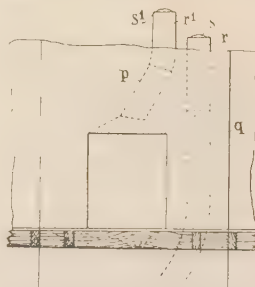


2. A pivoting support for automobile radiator shutters comprising a pair of sheet metal strips having integral therewith a plurality of hollow pivot members, substantially as described.

1,423,983. MOLDING OF CONCRETE PRODUCTS SUCH AS BLOCKS, PANELS, STRUCTURES, AND THE LIKE. JOHN WOOLCOCK, London, England, assignor to William John Stewart, London, England. Filed June 16, 1920. Serial No. 389,447. 8 Claims. (Cl. 25—128.)

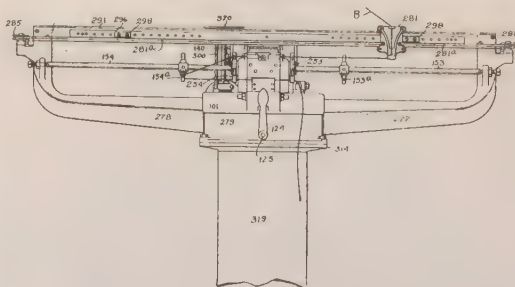
2. Apparatus for molding pipes, drains, sewers and other conduits, comprising in combination a central con-

tour determining member extensible by an axial pull to produce transverse contraction and a tubular covering member therefor constructed of rubber substance and extensible under tension.



8. A core for molding holes in concrete products and comprising a tube constructed throughout of rubber substance and adapted to be maintained at a determined size by a filling comprising a helical supporting coil which upon removal permit a sufficient contraction to provide for axial withdrawal of the core.

1,423,984. MACHINE FOR MAKING SHOE LACES AND THE LIKE. GEORGE H. ARMITAGE, Lincoln, R. I., assignor to United Lace & Braid Manufacturing Company, Auburn, in the town of Cranston, R. I., a Corporation of Rhode Island. Filed Sept. 20, 1918. Serial No. 254,991. 8 Claims. (Cl. 153—1.5.)



6. In a machine of the character described, the combination with tip applying mechanism, of means for feeding measured lengths of a continuous lace cord or the like to said mechanism comprising a reciprocating shuttle continuously engaging said cord or the like and means for operating said shuttle to cause it to deliver measured stretches of said cord or the like directly into position to be operated upon by said mechanism.

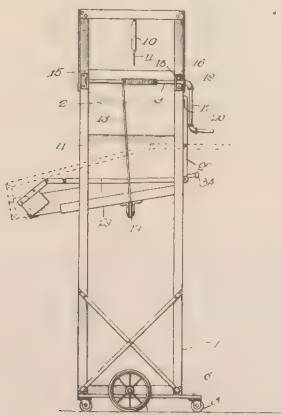
1,423,985. CEMENTING AND PROTECTING COMPOSITION. LAWRENCE E. BARRINGER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 18, 1919. Serial No. 338,939. 5 Claims. (Cl. 106—14.)

1. An electrical insulating composition capable of withstanding elevated temperature without damage, consisting largely of a silicate of an alkali metal and a lesser proportion of a natural resin.

1,423,986. COAL-HANDLING DEVICE. HARRY D. BARTLETT, Chicago, Ill. Filed Feb. 21, 1921. Serial No. 446,560. 6 Claims. (Cl. 193—29.)

1. A device for handling coal comprising a supporting frame having a hopper slidably mounted therein, mecha-

nism carried by said frame for vertically shifting said hopper, the bottom of said hopper being inclined to form a chute having an outlet at one side of said frame, a hinged gate mounted in said outlet and arranged to form a continuation of said chute, means for shifting said

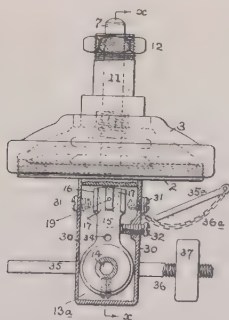


gate into position to close said outlet, and a follower slidably arranged in said chute and connected to said gate so as to be actuated thereby.

1,423,987. SYSTEM OR METHOD OF FEEDING COMBUSTION ENGINES FOR AIRSHIPS. ARNO BOERNER, Scheveningen, Netherlands. Filed June 3, 1919. Serial No. 301,589. 1 Claim. (Cl. 244—1.)

The method of feeding internal combustion engines for airships which consists in charging the combustion chambers of the engines with lifting gas drawn from the balloon and a compressed gas containing oxygen, the compressed gas containing the oxygen being obtained from a supply of the same on the balloon, the compressed gas being supplied in such quantities as to compensate by loss in weight the loss in buoyancy caused by the use of the lifting gas, substantially as set forth.

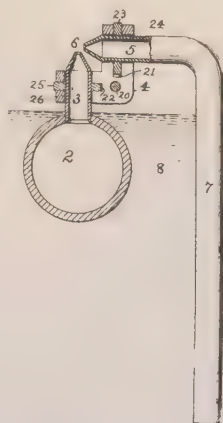
1,423,988. VALVE DEVICE. HERMAN C. BREHMER, Philadelphia, Pa., assignor to H. W. Butterworth and Son's Company, a Corporation of Pennsylvania. Filed Feb. 20, 1919. Serial No. 278,220. 10 Claims. (Cl. 137—139.)



1. A valve device for motors, consisting of a main frame having two relatively fixed parts providing a space

between them open to the atmosphere, one of said parts having a flat seating surface and a port therethrough, an adjustable bushing held in the other part of the main frame and having a seating surface and a port in said surface in alignment with the first mentioned port in the other part of the frame, said bushing extending to the outside of the frame whereby it may be adjusted when the valve is in operation, combined with a rock shaft journaled in the main frame, and a valve piece secured to the rock shaft adapted to be oscillated thereby, said valve piece unconfined and oscillating in the atmosphere and having its controlling portion made with opposite parallel surfaces of relatively small area having a transverse port extending from surface to surface adapted to come into alignment with the ports in the main frame and bushing, and also having one of its surfaces provided with an exhaust passage close to the port, whereby the valve piece oscillates transversely to and between the port of the frame and the port of the bushing and so as to bring its transverse port and exhaust passage alternately into operative position.

1,423,989. ATOMIZER. HERMAN C. BREHMER, Philadelphia, Pa., assignor to H. W. Butterworth & Son's Co., a Corporation of Pennsylvania. Filed July 31, 1919. Serial No. 314,583. 9 Claims. (Cl. 299—86.)

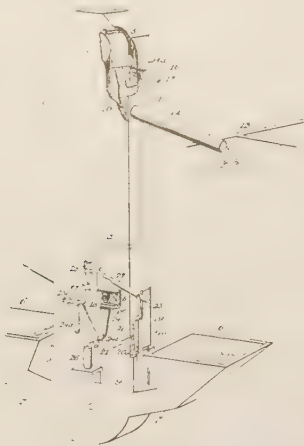


1. An atomizer consisting of a liquid holding tank, a vertical blast nozzle rigidly positioned in the tank, combined with an adjustable horizontal liquid supplying nozzle arranged at an angle to the blast nozzle and above the liquid level in the tank, said nozzles having conical ends so as to be capable of having the two nozzle apertures brought very close together under adjustment, said liquid nozzle having a downward pipe extending a substantial distance into the tank, a connecting frame adjustably secured upon the vertical blast nozzle so as to be raised or lowered in respect thereto and having an upwardly extending part for supporting the horizontal portion of the liquid supplying nozzle, and means for adjusting the liquid supplying nozzle upon the frame.

1,423,990. BIN-FILLING SHUT-OFF. MARTIN L. BREMER and ALVIN L. BREMER, Elberon, Iowa. Filed Nov. 7, 1921. Serial No. 513,516. 5 Claims. (Cl. 198—232.)

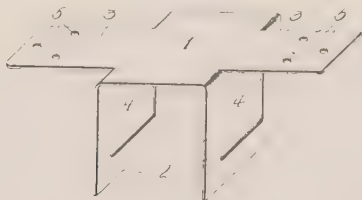
1. Combined with bin-filling mechanism, a switch-closer actuated by the rise of grain, a gate to regulate the flow of material to the bin-filler, means adapted to hold

the gate in open position, trip-mechanism to release the gate-holder, a magnet-actuated latch therefor, a source of



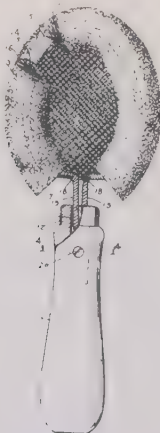
electrical energy, and a magnet in circuit therewith and with the switch.

1,423,991. SCREED HOLDER. GEORGE W. BROOKS, Topeka, Kans. Filed July 16, 1921. Serial No. 485,238. 7 Claims. (Cl. 72—101.)



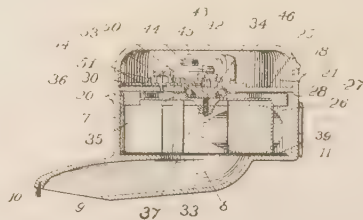
1. A screed holder or clip embodying a body portion, a normally depending flange, and a normally outturned substantially horizontal flange adapted to be bent in a vertical position to engage a screed after the latter has been placed in position.

1,423,992. SOAP-HOLDING BRUSH. FREDERICK S. BROWN, Torrington, Conn. Filed July 2, 1921. Serial No. 482,042. 6 Claims. (Cl. 15—122.)



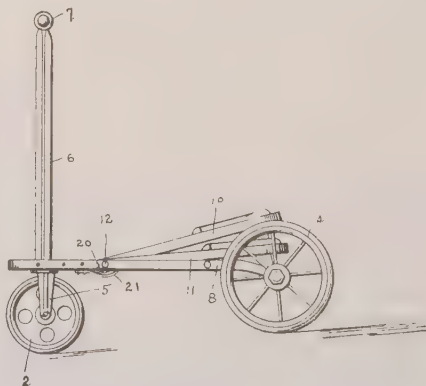
1. A device of the character described comprising a handle, a plurality of brush elements carried thereby and arranged side by side, and a soap container between the brush elements, said container having perforated walls.

1,423,993. SUCTION DUSTER. RAFAEL DIAZ BUITRAGO, New York, N. Y. Filed Mar. 9, 1921. Serial No. 450,910. 2 Claims. (Cl. 230—11.)



1. A manually held and operated suction duster comprising a two chambered casing adapted to be grasped by the hand, the suction chamber containing a suction fan, a shaft carrying the fan and extending into the other chamber, multiplying gears in the second chamber adapted to rotate said shaft, a fly wheel on said shaft, an operating lever extending exterior to the casing and adapted to be reciprocated by the muscles of the hand which grasps the casing, and a device by which the operating lever effects rotation of the multiplying gears, and the shaft flywheel, and suction fan.

1,423,994. SCOOTER CAR. WILLIAM BUNDE, Rochester, N. Y. Filed June 2, 1921. Serial No. 474,565. 3 Claims. (Cl. 208—33.)

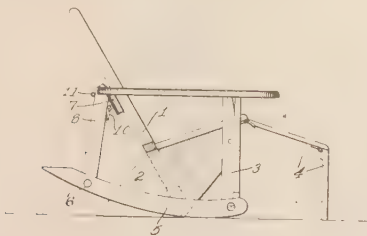


1. In a scooter car the combination of a frame, a stationary platform mounted at one end of said frame, a pair of pedals mounted to swing in the other end of said frame, a steering fork mounted to rotate in said stationary platform, a wheel mounted on the end of said steering fork and supporting said stationary platform, a crank shaft mounted at the rear end of said frame, a wheel at each end of said crank shaft adapted to support the rear of said frame, connecting rods between the free end of each of said pedals and said crank shaft, each of said connecting rods having a loose fit with said pedals to permit a lost motion thereof, and means to throw said crank shaft past the dead center on the downward movement of said pedals.

1,423,995. CONVERTIBLE CHAIR. HARRY C. BUNNELL, Westport, N. Y. Filed Apr. 14, 1922. Serial No. 552,544. 2 Claims. (Cl. 155—73.)

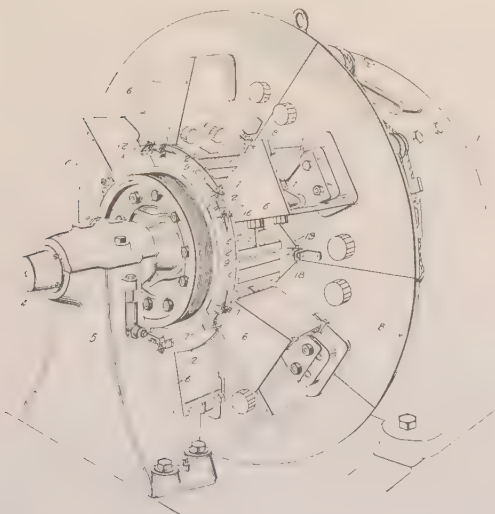
1. The combination with a chair, of rockers pivoted to said chair at their forward ends, a cross piece at the rear

of the chair, a rod connecting the rear portion of the rockers, a bar pivotally carried by said rod, the bar being



notched to engage the upper edge of the cross piece and beveled to fit under said cross piece, and means for locking the bar in place.

1,423,996. ARC BARRIER FOR DYNAMO-ELECTRIC MACHINES. JOSEPH L. BURNHAM, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 7, 1922. Serial No. 527,700. 15 Claims. (Cl. 171—321.)

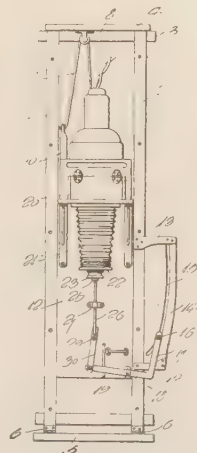


1. In combination, a commutator, sets of brushes therefor, and arc barriers located between adjacent sets of brushes, each of said barriers comprising a member of insulating material mounted so as to be in close proximity to said commutator and inclined thereto at an obtuse angle having reference to the direction of rotation of the commutator, and an arc splitter of insulating material located between the ends of such first mentioned member and extending at substantially right angles thereto and at substantially right angles to said commutator and toward said set of brushes in front of which said barrier is located having reference to the direction of rotation of said commutator.

1,423,997. AUTOMATIC FOCUSING DEVICE FOR ENLARGING CAMERAS. FELIX J. CALLIER, Brush, Colo. Filed Mar. 21, 1921. Serial No. 453,874. 6 Claims. (Cl. 88—24.)

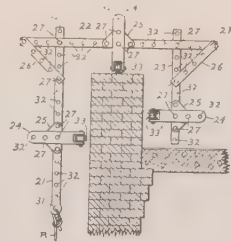
6. A device of the character described comprising a track, a camera carrier movable longitudinally thereof, a lever pivoted to said camera carrier, means for imparting swinging movement to the lever as the camera carrier moves longitudinally of the track, a rod extending longitudinally of said camera carrier and slidably connected

therewith, lens board engaging means adjustably connected with said rod and extending therefrom for connection



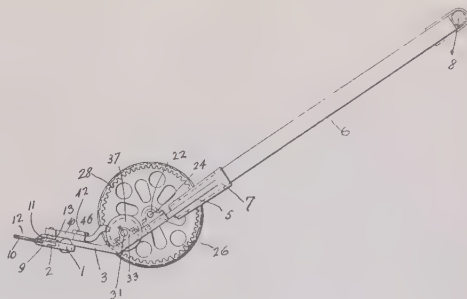
with the lens board of a camera, and means connecting the lower end of the rod with the inner end portion of said lever.

1,423,998. SCAFFOLD CARRIER. ARTHUR E. CAMP, Binghamton, N. Y. Filed Dec. 29, 1921. Serial No. 525,680. 8 Claims. (Cl. 304—17.)



1. An expansible scaffold supporting hook in combination with roller members arranged for attachment thereof to project various distances from and at any of various points along the length of the inner faces of said hook, whereby such rollers will be adapted to serve both for supporting and stabilizing said hook in cooperating with the top of a wall or the like.

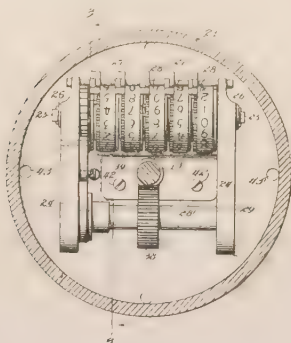
1,423,999. LAWN MOWER. PHILIP ALEXANDER CAMPBELL, Vancouver, British Columbia, Canada. Filed June 24, 1921. Serial No. 480,072. 2 Claims. (Cl. 56—259.)



1. A lawn mower comprising a wheeled frame forked at its lower front end and provided in each forked arm with

a transverse slot, a transverse plate secured to the forks of the frame having a slot in its front edge and a slot registering with one of the fork slots, a lower knifed bar having its rear edge slidably mounted in said front edge slot, an upper knifed bar superposed on said plate having a slot registering with the fork and plate slots aforesaid, a vertical pin secured to said lower knifed bar projecting through the upper knife slot, the plate slot, and the fork slot, a vertical pin secured to the upper knifed bar projecting through the other fork slot, and means for simultaneously imparting opposite reciprocating motion to said pins.

1,424,000. HUB ODOMETER. CLARENCE CARSON, New Rochelle, N. Y., assignor to Johns-Manville Incorporated, a Corporation of New York. Filed June 17, 1920. Serial No. 389,551. 8 Claims. (Cl. 235—95.)



1. In a hub odometer, the combination of a closed cylindrical casing mounted for rotary movement about its axis, an odometer mechanism including a numerial wheel set contained within said casing, a relatively fixed shaft extending axially into said casing, a driving connection between the numerial wheel set and said shaft and a lubricant-travel-limiting partition disposed between the numerial wheel set and the shaft at the axis.

1,424,001. TOOL. BERT W. CHRISTIAN, Delavan, Wis. Filed Apr. 6, 1920. Serial No. 371,641. 2 Claims. (Cl. 137—70.)



1. A trap clean out tool comprising a rigid S shaped member, the arms of said member extending in opposite directions in the same plane, cutting edges carried by the ends of said arms, said arms forming hand grips whereby the tool may be oscillated in a trap passage when the opposite arm is disposed in said trap passage.

1,424,002. PISTON. JOHN ALBERT COLE and LEO JOSEPH SHORTER, Coventry, England. Filed Nov. 14, 1921. Serial No. 515,057. 1 Claim. (Cl. 123—197.)

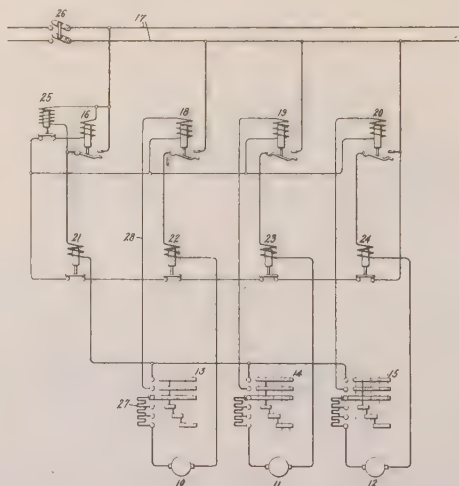
A piston for an internal combustion engine in which the whole of the crown of the piston is flat and the plane thereof is oblique to the axis of the cylinder, the piston having a wrist pin bearing cutting the piston axis; the

direction of slope of the crown being such that the edge thereof nearest the mouth of the cylinder is against that



side of the cylinder which takes the whole side thrust during the entire working stroke.

1,424,003. CONTROL SYSTEM. CHARLES B. CONNELLY, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 23, 1921. Serial No. 517,405. 2 Claims. (Cl. 171—97.)

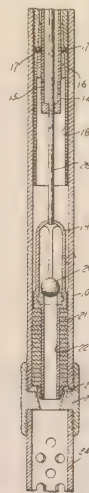


1. The combination with a plurality of electric translating devices, of a separate controller for each of said devices, a normally closed electromagnetic line switch under the control of all of the said controllers in a common conductor for the said translating devices, a separate normally open electromagnetic line switch under the control of its corresponding one of said controllers in each of the separate return conductors for said devices, an electromagnetic relay having its winding connected across the circuit making contacts of the said line switch in the common conductor, current responsive means, and connections whereby the operation of the current responsive means deenergizes the said line switches and the said relay is energized to maintain the said line switch in the common conductor in the open position until all of the said controllers are first returned to their respective off positions.

1,424,004. PUMP. EVERETT CUSHMAN CUMMINGS, Electric, Tex. Filed Dec. 13, 1921. Serial No. 522,098. 7 Claims. (Cl. 103—179.)

1. A pump of the class described, comprising a barrel, a plunger slidably mounted in the barrel, a valve located

near the lower end of the barrel, a polish rod attached to the plunger for operating it, a valve located near the upper end of the polish rod, and means in conjunction with



the plunger for enclosing the barrel valve to protect it from being packed with sand when the pump is not in operation.

1,424,005. MANUFACTURE OF BLANKS OF SHEET METAL. FRANK DRURY, Aintree, Liverpool, England, assignor to G. H. Williamson & Sons, Limited, Worcester, England, a Corporation of Great Britain. Filed Sept. 11, 1920. Serial No. 409,727. 1 Claim. (Cl. 164—48.)



A shearing machine for the production of sheet metal strips with zig-zag or waved longitudinal edges having in combination shearing tools the cutting edges of which are the requisite zig-zag or waved contour, an adjustable stop to limit the forward movement of said sheet metal, and adjustable stops to limit the sidewise movement of the sheet metal, said last mentioned stops being so set that the metal may be shifted for alternate cutting operation to right or left a distance equal to one-half the pitch of the zig-zag or waved longitudinal edges.

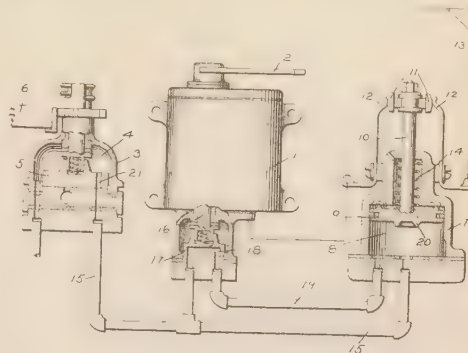
1,424,006. MANUFACTURE OF ARSENICAL COMPOUNDS. KARL BASIL EDWARDS, Eltham, London, England. Original application filed Jan. 26, 1921, Serial No. 440,168. Divided and this application filed Oct. 22, 1921. Serial No. 509,749. 4 Claims. (Cl. 23—13.)

2. A process for the manufacture of salts of the formula $R_3AsO_2S_2$, R_3AsOS_3 , where R is an alkali metal or ammonium, which comprises treating arsenious oxide with a solution of alkaline polysulphide and reducing the salts to an anhydrous condition.

1,424,007. PNEUMATIC CUT-OUT DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 7, 1920. Serial No. 401,896. 8 Claims. (Cl. 303—6.)

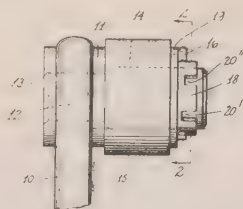
1. The combination with a controller and a brake valve, of a fluid pressure operated switch device for controlling the power circuit to the controller and means controlled by said controller for controlling a communication through

which fluid under pressure is supplied from the brake valve to said switch device.



7. In a brake and power control apparatus, the combination with a controller, of a fluid pressure operated switch for controlling the power circuit to said controller, a brake valve for supplying fluid under pressure to said switch device in release position and for venting fluid under pressure from said switch device in the brake applied positions of the brake valve, and a valve operated by said controller for supplying fluid under pressure to said switch device only in the off position of the controller.

1,424,008. WASHER. PAUL W. FLEISCHER, Weehawken, N. J. Filed July 21, 1921. Serial No. 486,379. 1 Claim. (Cl. 85—50.)



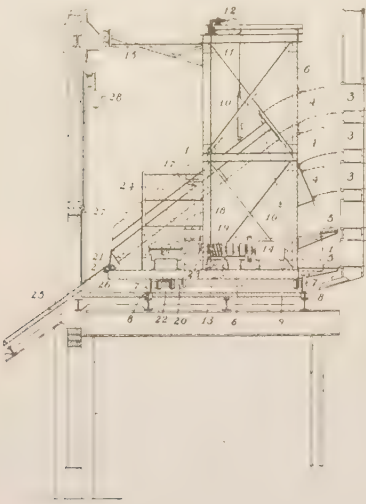
A washer comprising a tubular or neck portion and a flange extending outwardly at one end of said neck portion, the said neck portion being provided with a plurality of pairs of notches, open at the end of said portion opposite to the flanged end, and having their bottom walls at different distances from said flanged end.

1,424,009. BASKET HANDLE AND LID FASTENER. GEORGE R. FOWLER, Marlboro, N. Y. Filed Nov. 30, 1921. Serial No. 518,952. 3 Claims. (Cl. 217—125.)



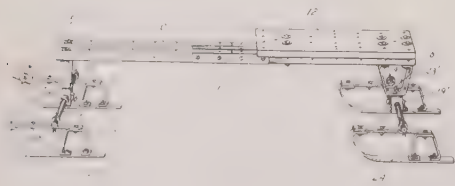
1. A basket having a pliable handle, coacting fastening means adjacent the free ends of the handle, and one of said means being passable to the other means to engage the basket lid.

1,424,010. DISCHARGE CHUTE. RALPH ERNEST GIBSON and HERBERT NICOLL, Liverpool, England. Filed May 13, 1922. Serial No. 560,691. 5 Claims. (Cl. 214-18.)



1. A discharge chute mechanism for furnaces of the type having carbonizing chambers arranged in superposed tiers, comprising in combination, a carriage arranged to travel along the furnace front; a plurality of superposed tubular guides mounted on said carriage in position to register with successive tiers of said chambers; and a tube movably mounted on said carriage so as to be capable of registering selectively with said tubular guides.

1,424,011. SLED. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 10, 1919. Serial No. 288,948. 19 Claims. (Cl. 280-14.)

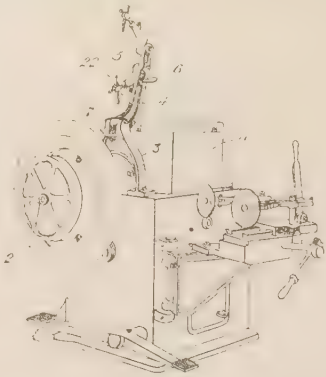


17. A detachable runner frame for a toy vehicle including a bearing member secured thereon comprising a strip having an end thereof bent to form a circular loop.

1,424,012. TRIMMING DEVICE. FRANK H. GROVE, Columbiana, Ohio, assignor to The Banner Machine Company, Columbiana, Ohio, a Corporation of Ohio. Filed Mar. 16, 1920. Serial No. 366,269. 6 Claims. (Cl. 164-38.)

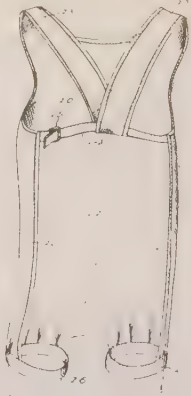
1. In combination with a rotatable tire building core, a trimming device including a swinging arm pivoted adjacent said core and arranged to be swung into position above the core, means for automatically stopping the arm in the desired position, individual arms pivotally mounted upon said swinging arm and arranged to be located upon

opposite sides of the core when the swinging arm is moved into operative position and trimming knives carried by



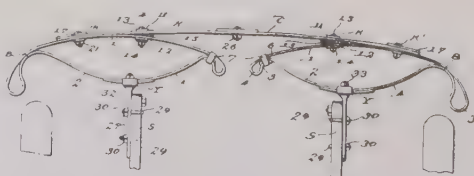
said individual arms and arranged to be moved toward the core by the swinging movement of the individual arms.

1,424,013. CREEPER BIB. METHEL F. HALE, Grover Hill, Ohio. Filed Apr. 18, 1922. Serial No. 554,844. 2 Claims. (Cl. 2-54.)



1. A garment of the type indicated having front body and skirt members and a looped strap formed as an extension of the body member at the upper edge of the latter and opposite sides of the same to provide right and left shoulder straps, a belt connecting the opposite edges of the skirt member and extending through the loop of the shoulder strap, and leg engaging members provided through the lower edge of the skirt member.

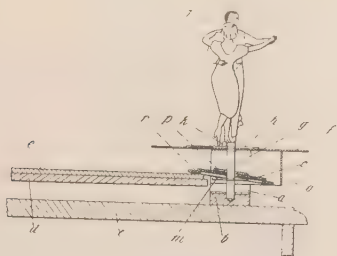
1,424,014. SPRING GUARD FOR VEHICLES. LOUIS H. B. HAND, Harvey, Ill. Filed Jan. 23, 1922. Serial No. 531,263. 10 Claims. (Cl. 293-55.)



4. A guard comprising a pair of elliptical spring members, each having a secondary loop at an end thereof, each having reversely curved front and back portions diverging from the ends of the loop toward the transverse

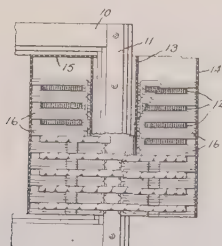
medial line of the spring member an additional spring member of general arcuate or bow-shape, means for clamping the end portions of the second named spring member to the front portions of the elliptical spring members intermediately of the latter, and means for attaching the back portions of the elliptical spring members to a support.

1,424,015. MECHANICAL TOY OPERATED BY GRAMOPHONES. HERBERT JOSEPH HASTINGS and CHARLES ST. VINCENT SMITH, East Twickenham, England. Filed Sept. 2, 1921. Serial No. 498,030. 6 Claims. (Cl. 46-40.)



1. A mechanical toy for use in combination with a phonograph of the disc-record type, comprising a weighted frame, a stationary horizontal table of non-magnetic material carried thereby, an upright magnetized spindle mounted to revolve in bearings in said frame, the upper end of said spindle projecting through an aperture in the table, a disc fixed concentrically upon the spindle, a floating disc of non-magnetic material centrally apertured so as to give free passage to said spindle and to be adapted to rest upon the margin both of said fixed disc and also of a phonograph-turntable, an armature of magnetic material adapted to rest upon and slide easily over the surface of said table, and a figure carried by said armature, substantially as and for the purpose set forth.

1,424,016. ELECTRICAL APPARATUS. LAWRENCE A. HAWORTH, Dalton, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 13, 1920. Serial No. 416,677. 5 Claims. (Cl. 175-356.)

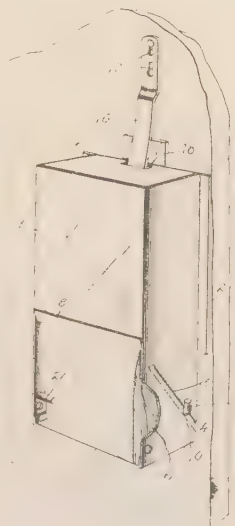


1. In an electrical apparatus, the combination with windings composed of coils in assembled relation, of spacing devices for holding said windings in spaced relation, each of said devices comprising a member having portions extending over the faces of a coil, and filling members extending in interlocked relation with said first member.

1,424,017. BAG HOLDER. CARL R. HELLSTROM, Minneapolis, Minn. Filed Jan. 23, 1922. Serial No. 531,238. 10 Claims. (Cl. 24-2.)

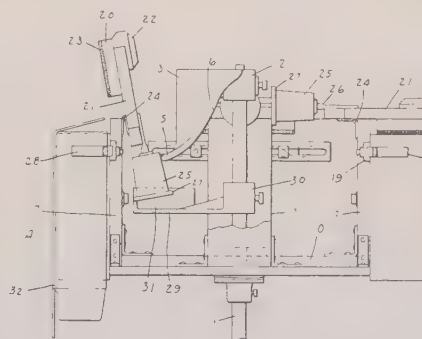
1. A dispensing device comprising, in combination, a casing, an opening in the front of the casing, a bar adjacent one end of the opening to retain the ends of objects

to be dispensed, a depressed edge at the opposite side of the opening, and means in said casing to move said objects toward said opening.



2. A dispensing device comprising, in combination, a casing having an opening adjacent one end of its front, means in said opening to retain the ends of objects to be dispensed, a diagonal guide-way carried by the side walls of said casing opposite said opening, means working in said guide way to press objects towards said opening.

1,424,018. CARTON SEALER. GEORGE K. HENDERSON, Indianapolis, Ind., assignor to International Printing Company, Indianapolis, Ind., a Corporation. Filed July 2, 1921. Serial No. 482,079. 10 Claims. (Cl. 93-36.)



1. A sealing machine for paper receptacles having means for supporting a receptacle, means for clamping and sealing said receptacle under pressure, and a separate means for actuating said clamp and sealing means for causing the same to automatically release said receptacle for permitting its removal and replacement, and thereafter causing said clamping and sealing means to be automatically brought to operative position.

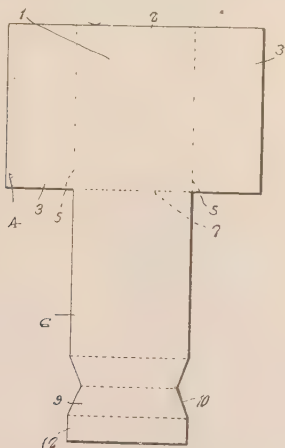
1,424,019. SECTIONAL TIRE RIM. HAL HENRY HIVELEY, Tar River, Okla. Filed Dec. 30, 1916. Serial No. 139,728. 1 Claim. (Cl. 301-11.)

A demountable rim comprising a major section having a tire retaining flange and a radially inwardly extending flange, a tire retaining section seated on the major sec-

This technical drawing illustrates a complex optical system, likely a telescope or a specialized camera. The main vertical assembly consists of a series of lenses or optical elements, numbered 1 through 13. A beam of light, represented by multiple lines, enters from the left and is focused through the system. A central component, labeled 3, appears to be a filter or a beam splitter. To the right, there is a detailed view of a component labeled 13, showing its internal structure and a small circular feature. Below the main assembly, there is a detailed view of a component labeled 7, which appears to be a lens or a filter. The drawing includes various mechanical details, such as mounting brackets and adjustment screws, indicating a highly precise and adjustable device.

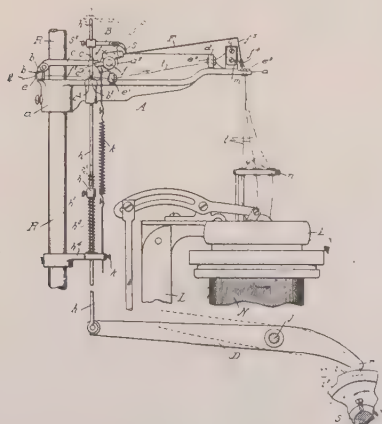
An envelope formed from a blank and having a front wall, laterally extending wing means on said front wall

foldable thereover to provide a compartment, a rear wall substantially similar to said front wall extending therefrom at substantially a right angle to said wing means and foldable over and against said wing means, a closure flap extending from the rear wall folded into a loop, said loop being insertible into one end of the envelope intermediate said front wall and said wing means, where-



by a pocket is afforded exteriorly of said compartment adapted to be torn along the fold line between said loop and the rear wall during opening thereof without danger of tearing the contents of said compartment.

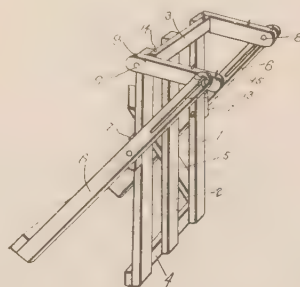
- 1,424,025. AUTOMATIC TENSION-CONTROLLING MEANS FOR KNITTING MACHINES. JOHN LAWSON, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I., a Corporation of Massachusetts. Filed Mar. 2, 1914. Serial No. 821,867. 1 Claim. (Cl. 66—9.)



A circular knitting machine having in combination a plurality of guides for a corresponding plurality of threads, a corresponding plurality of take-ups, and a corresponding plurality of pivoted tension devices, one for each of said threads, each take-up and its corresponding tension device being structurally distinct and independent from all the other said take-ups and tension devices, and each pivoted tension device having a part to be engaged by the corresponding take-up, thereby to render the same active or inactive, a cam shaft, means thereon having a corresponding plurality of cam elevations and depres-

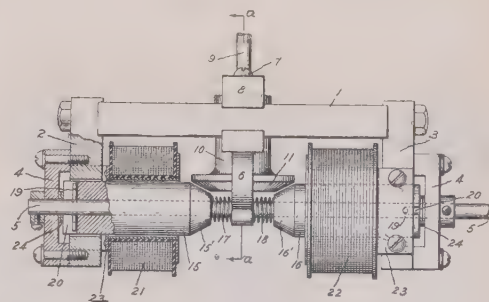
sions, said elevations and depressions controlling the position of the corresponding take-up and tension device for circular work and the position of the take-ups and tension devices for reciprocating work, a corresponding plurality of levers adapted to engage said cam elevations and depressions respectively, link like members extending upwardly from said levers and having rectilinear movement, a controller member carried by each of said link like members and movable therewith, and a separate spring to act on each controller member, each of said controller members being structurally free from but adapted periodically to be brought into pushing contact with its take-up to depress the same and to release the corresponding tension device.

- 1,424,026. BAG HOLDER. BENJAMIN F. MILLER, Vienna, Va. Filed June 22, 1921. Serial No. 479,556. 4 Claims. (Cl. 83—26.)



1. In a bag holder, a frame comprising an inclined back piece, a pair of legs secured to said back piece and forming with the lower edge of said back piece a base of support for said bag holder, means secured to said back piece extending above the plane of said back piece for holding the mouth of a bag in opened position, said legs being constructed to support the back piece at an angle to the vertical of sufficient acuteness that the center of mass of a bag held thereby will be without the base of support of said bag holder.

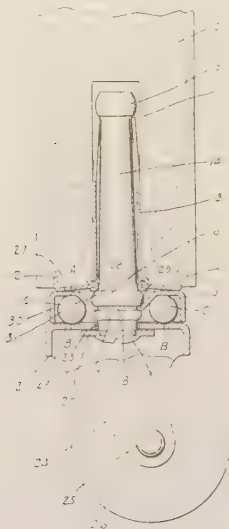
- 1,424,027. ELECTROMAGNETIC CLUTCH AND REVERSING MECHANISM. EDWIN J. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 15, 1920. Serial No. 351,587. 4 Claims. (Cl. 74—26.)



1. An electro-magnetic gear clutch and reversing mechanism, comprising a driving shaft, two gears of magnetic material splined to the shaft so as to be capable of moving independently lengthwise of the same, a driven shaft supporting a gear of magnetic material in proximity to the driving shaft gears, springs for holding the latter gears normally out of engagement with the driven shaft

gear, and means for establishing selectively a local magnetic short-circuit including either of the driving shaft gears and the driven shaft gear.

1,424,028. BALL-BEARING CASTER. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Jan. 27, 1922. Serial No. 332,165. 6 Claims. (Cl. 16—21.)



5. A caster including a pivot with a reduced portion, a centrally apertured cup having an inwardly and angularly extending annular portion surrounding the aperture and an outer annular depending apron portion, said cup being seatable in said reduced portion, a trackplate apertured and receivable by said pivot and pivotally supported thereby, and a plurality of balls in the raceway formed by said cup and said plate, said balls being of less diameter than the width of the raceway, whereby each ball will contact the cup and the yoke and but one of the annular cup portions, said apron portion being greater in depth than the radius of said balls and less in depth than the diameter of said balls for retaining the same in the raceway and guarding the same.

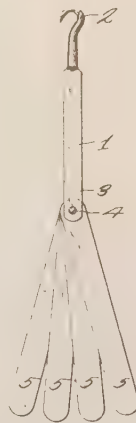
1,424,029. MANUFACTURE OF SWIVEL MEMBERS. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 28, 1919. Serial No. 333,950. 1 Claim. (Cl. 59—9.)



The improved method of manufacturing swivel members for hasp fasteners which consists in punching from a flat sheet of metal a blank having an unbroken ring and an integral post extending therefrom, then by suit-

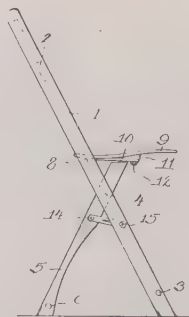
able dies simultaneously shaping the ring and the post so that the blank is substantially circular in cross section and of uniform diameter in all parts, and then reducing one end of the post to thus form a pintle.

1,424,030. SHOE HORN. HARRY E. PECK, Waverly, N. Y. Filed June 24, 1921. Serial No. 480,046. 3 Claims. (Cl. 132—7.)



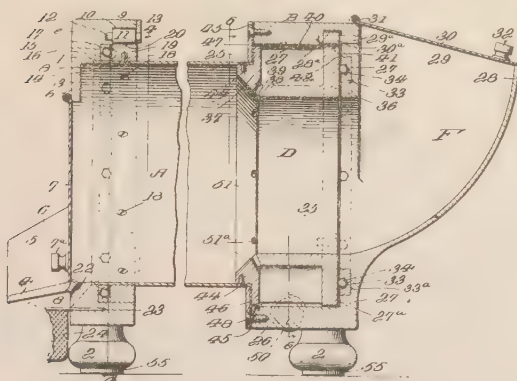
1. A shoe horn comprising a handle member, a plurality of transversely and longitudinally flexible fingers pivotally connected to one end of the handle member and adapted to be spread apart at their free ends for forming a shoe horn.

1,424,031. FOLDING CHAIR. PETER H. PETERS, Downers Grove, Ill. Filed Sept. 23, 1921. Serial No. 502,665. 4 Claims. (Cl. 155—143.)



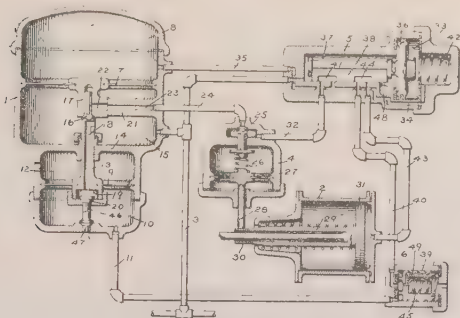
1. In a folding chair, a pair of tall risers connected by cross-bars, a pair of shorter legs pivoted thereto and adapted to aline therewith when the chair is folded, a seat, pivot straps secured to the seat and diverging downwardly from the seat forwardly thereof, and wedges disposed respectively between the straps and the bottom of the seat.

1,424,032. VEGETABLE PEELER. THEODORE H. PICKERING, Rochester, N. Y., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 14, 1921. Serial No. 500,547. 25 Claims. (Cl. 146—14.)



18. In a device of the character described, a horizontally supported rotatable peeling cylinder having open ends, and a water-actuated member surrounding the opening at one end of the cylinder.

1,424,033. FLUID-PRESSURE BRAKE. EARL M. RICHARDS, Wilkinsburg, Pa. Filed July 23, 1920. Serial No. 398,436. 18 Claims. (Cl. 303—36.)



1. In a fluid pressure brake, the combination with a brake pipe, of means subject to the opposing pressures of the brake pipe and a chamber normally charged with fluid from the brake pipe for controlling the brakes and means operated upon an increase in brake pipe pressure above normal for preventing the charging of said chamber from the brake pipe.

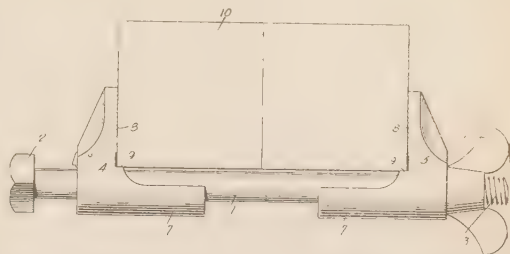
11. In a fluid pressure brake, the combination with a brake pipe, brake cylinder, and valve mechanism subject to the opposing pressures of the brake pipe and a chamber normally charged with fluid under pressure from the brake pipe for controlling the application and release of the brakes, of means normally establishing communication through which fluid from the brake cylinder is released by said valve mechanism and operated upon an increase in brake pipe pressure above normal for cutting off said communication and for opening another communication through which fluid is released from the brake cylinder.

14. In a fluid pressure brake, the combination with a brake pipe, brake cylinder, and a valve mechanism subject to the pressures in the brake pipe and brake cylinder for controlling the brakes, of means operated upon an increase in brake pipe pressure above normal for controlling the release of the brakes.

1,424,034. CLAMP. HERMAN RIGERT, Brooklyn, N. Y. Filed May 4, 1921. Serial No. 466,714. 2 Claims. (Cl. 144—303.)

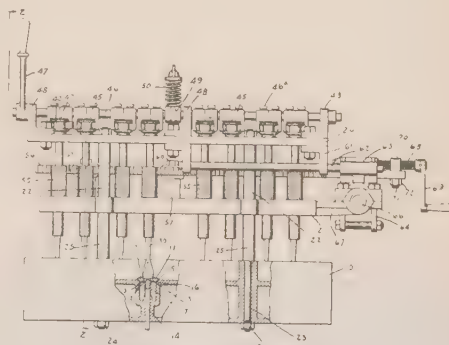
1. As a new article of manufacture, a clamp including a rod, a pair of clamping jaws slidable and rotatable on the

rod, substantially semi-cylindrical bearing bosses integral with the jaws and presented towards each other, said



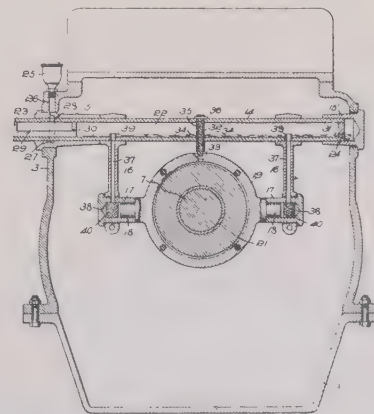
bosses and jaws being located on opposite sides of the rod, whereby to brace the jaws against strain.

1,424,035. MULTIPLE-VALVE-GRINDING MACHINE. ROBERT M. ROOF, Anderson, Ind. Filed Oct. 29, 1920. Serial No. 420,459. 6 Claims. (Cl. 51—29.)



1. In a valve grinder, a frame, a valve engaging and driving member, a holder in said frame for said driving member, a pin and slot connection between said holder and said valve engaging member permitting longitudinal but preventing rotational movement therebetween, yielding means associated with said valve engaging member and said holder for normally maintaining the valve engaging member in valve engaging position, means for oscillating said holder, and means for raising and lowering said holder in said frame.

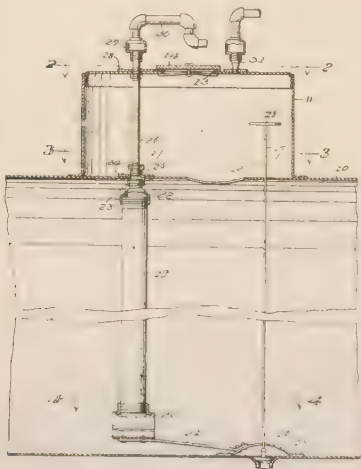
1,424,036. CLUTCH. DELMAR G. ROOS, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Aug. 8, 1918. Serial No. 248,878. 9 Claims. (Cl. 192—113.)



1. In a clutch, the combination of a rotatable thrust member, a thrust collar, a thrust collar operating rock

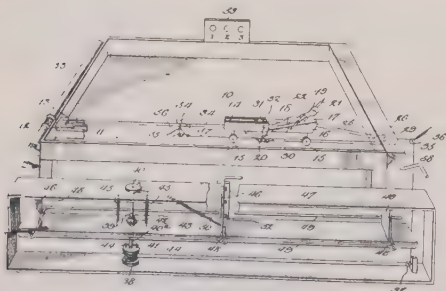
shaft, and thrust collar lubricating means including an oil reservoir and oil absorbing means interposed between said reservoir and said thrust collar.

1,424,037. TANK-CAR-LOADING DEVICE. EMMETT H. RUDOLPH, Pershing, Okla. Filed Nov. 18, 1920. Serial No. 424,954. 6 Claims. (Cl. 220—86.)



6. The combination with a tank car having a hull and a dome surmounting the hull and in communication therewith by a manhole in the shell of the hull, said dome being provided with a manhole fitted with a removable plug, and the hull being provided with a bottom vent valve and a guard strap spanning the same, of a loading and unloading device having relatively enlarged and reduced pipe sections arranged respectively in the hull and dome and connected by a reducer arranged adjacent to the top of the hull and supported thereon by a flange nipple, and a vacuum vent pipe in communication with the interior of said dome.

1,424,038. SWIMMING RACE. RYUJI SATO and CHIYOSABURO MATSUI, New York, N. Y. Filed Jan. 3, 1921. Serial No. 434,664. 6 Claims. (Cl. 46—56.)

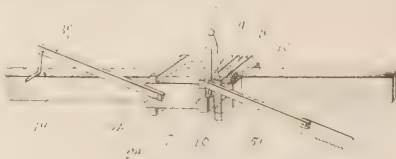


2. A device of the class described, comprising a tank, a track mounted in said tank, a manikin mounted on said track, and means operable to draw said manikin along said track and to move said manikin from erect to swimming posture.

1,424,039. SAWING MACHINE. FLETCHER J. SCOTT, Hurdland, Mo. Filed June 27, 1921. Serial No. 480,875. 2 Claims. (Cl. 143—68.)

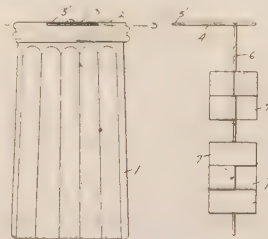
1. A cross-head or guided means constituting a connec-

tion between a means for producing reciprocating motion, and a saw reciprocated thereby, and an element pivoted to



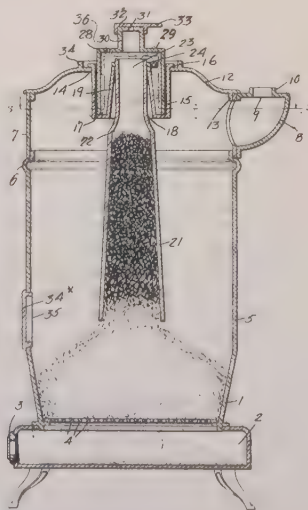
said cross-head on an axis parallel to its reciprocating motion, to which element the saw is attached.

1,424,040. SALTCELLAR. JOHN E. SCOTT, Philadelphia, Pa. Filed Sept. 20, 1921. Serial No. 501,957. 1 Claim. (Cl. 65—57.)



In a salt cellar, a receptacle, a cover therefor having a segmental delivery slot in the side thereof, a quadrant-shaped metallic member pivoted to the under side of the central portion of the cover and including an offset portion movable through the slot and acting as an operating member and a slot cleaner, the edge portion of the plate being in the plane of the delivery slot and adapted to close the latter, and an agitator formed with the metallic plate and constituting a strip projecting downwardly therefrom, said agitator including angular cutting blades deflected laterally in various directions by bending the metal of which the strip is formed.

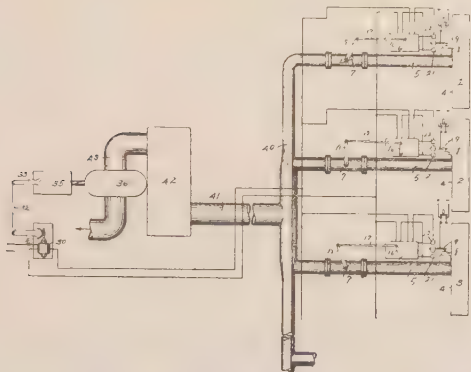
1,424,041. FUEL FEED FOR HEATING DEVICES. FREDERICK SANFORD SEYMOUR, Manchester, Iowa. Filed Oct. 8, 1921. Serial No. 506,280. 7 Claims. (Cl. 126—73.)



1. In a heating device, the combination with the fire pot, of a fuel feed tube depending towards the centre

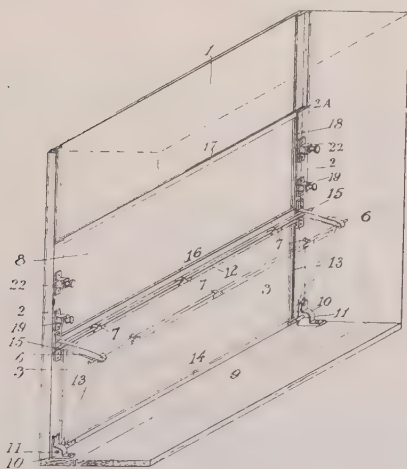
of the fire pot and having an open upper end, a steam generator into which the open upper end of the feed tube extends, and means for directing the water overflow into the fire pot.

1,424,042. AUTOMATIC REGULATOR FOR COKE OVENS. WILMER M. SHALLCROSS, Milwaukee, Wis., assignor to Northwestern Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 27, 1919. Serial No. 326,847. 8 Claims. (Cl. 48-173.)



1. The method of automatically regulating the pressure of gas in a series of gas producing chambers having separate connections with a common outlet, consisting in continuously exhausting gas from the outlet, separately throttling the connections between the respective chambers and the outlet, in inverse correspondence to the pressure in such chambers, and separately varying the rate of gas withdrawal at the outlet when the degree of variation in any duct exceeds a predetermined limit.

1,424,043. PROTECTING DEVICE FOR SHOW WINDOWS. MAX A. SKALL, New York, N. Y. Filed July 25, 1921. Serial No. 487,280. 5 Claims. (Cl. 20-40.)

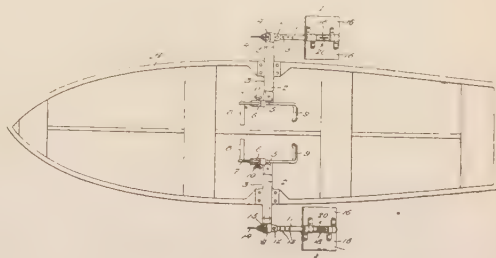


1. In a device of the kind described a glass plate forming the front of a show window, a movable frame holding a second plate or screen slidably mounted parallel to said first plate, and a vertical glass shield adapted to rotate about its lower horizontal edge and forming means to support said frame.

1,424,044. BOAT. JOSEPH SOLACK, Scranton, Pa. Filed Apr. 26, 1921. Serial No. 464,659. 3 Claims. (Cl. 115-21.)

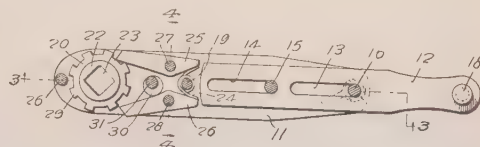
1. A propelling apparatus for boats comprising a shaft arranged in a horizontal bearing and having the latter

secured to one side of a boat, a socket member secured to the outer end of said shaft and a crank secured to the inner end thereof, a guideway provided on said crank, a flat bar slidably mounted in the latter and a handle provided on said bar at the upper end and a foot piece at the lower end thereof, means for holding the bar in



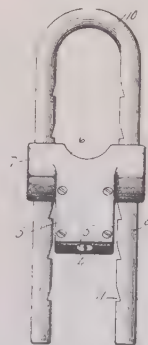
adjusted position in said guideway, a stem adapted to engage the socket member and adjustably mounted therein, means for preventing turning movement of the stem in the socket member, a pair of blades hinged to the lower end of said stem, stops provided on said blades and a projection provided on said stem for engaging said stops.

1,424,045. RATCHET CRANK. GEORGE EDWIN SPRAGUE, Cambria, Ill. Filed Sept. 12, 1921. Serial No. 499,888. 1 Claim. (Cl. 74-54.)



A ratchet crank comprising plates spaced apart by members holding such plates rigidly in spaced position, a ratchet rotatable between the plates and having hubs extending outwardly through the plates perforated by a multi-angular opening, ratchet detents pivoted between the plates, a spring tending to hold the ratchet detents in engagement with the perimeter of the ratchet, a cam operable from the exterior of the plates capable of throwing either of the ratchets out of operating relation, an arm slidable longitudinally between the plates, means to secure the arm at an adjusted position, and a handle adjacent the end of the arm.

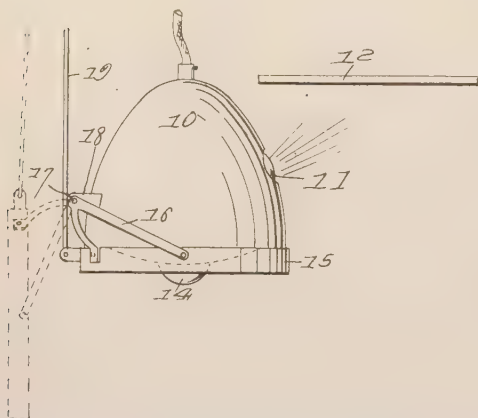
1,424,046. LOCK. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 16, 1921. Serial No. 522,738. 6 Claims. (Cl. 70-108.)



3. A lock case including a stem member and a cross member providing wings on opposite sides of said case,

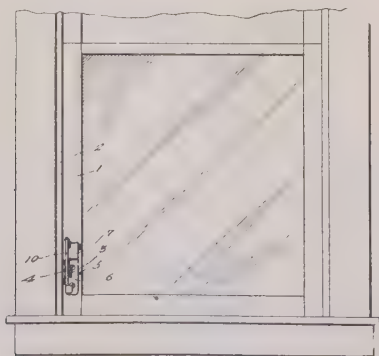
said members being located at an oblique angle each to the other, a shackle comprising arms extending through the wings on opposite sides of said stem, mechanism located in said stem to be operated by a key positioned at an oblique angle to said shackle arms, and members included in said mechanism and adapted to engage and hold said shackle arms.

1,424,047. TAIL LIGHT FOR AUTOMOBILES. AUGUST O. SVEDAHL, Marmarth, N. Dak. Filed July 12, 1920. Serial No. 395,586. 1 Claim. (Cl. 240—7.)



A tail light for automobiles and similar vehicles having a lamp of which the casing is provided with a rearwardly directed illuminating lens and an annular frame adapted for arrangement in co-extensive relation with a rear end of the casing and having a pivoted carrying bracket, means for moving the said frame into and out of position in registration with the casing, and a signal lens carried by said frame for displacement in light intercepting relation with the illuminating lens, and disposed in a light penetrable medium co-extensive with said illuminating lens.

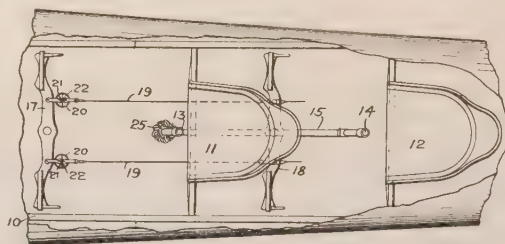
1,424,048. WINDOW LATCH. JOSEPH SZALAY, Vicksburg, Miss. Filed Mar. 14, 1921. Serial No. 452,105. 1 Claim. (Cl. 292—228.)



A sash lock comprising a stud on the frame, a plate on the sash, a second plate pivoted to the first plate and arranged at right angles thereto, an offset portion provided on said plate and having a recess therein and rolled over

to provide an eye, said plate including a movable plate and a pivot pin carried thereby with which the eye engages so that the movable plate is pivotally secured, a spring engaging said pivot pin and having one end bent over to engage a small hole in the movable plate and its other end engaging a notch formed in the first mentioned plate, a pin carried by the movable plate to engage the offset portion of the first mentioned portion of the first mentioned plate for limiting the movement of the movable plate, the pivoted plate having a notch therein and beveled edge leading to the notch and a stud adapted to be secured to the opposite part of which the plate is secured and arranged to engage the beveled edge of the plate when the sash is being closed to force said plate outwardly and to come opposite the notch at the end of the closing movement so that the spring will place the notch in engagement with the stud.

1,424,049. DUAL CONTROL FOR AIRPLANES. BENJAMIN DOUGLAS THOMAS, Ithaca, N. Y., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y., a Corporation of New York. Filed July 3, 1919. Serial No. 308,584. 8 Claims. (Cl. 244—29.)



1. In an airplane, the combination of dual manual control members, one for instructor and one for pupil, and a connection between said members normally adapted to move the same in unison, said connection including an elastic element adapted to yield under a greater than normal stress, and to return to normal condition when said greater stress is removed, independently of the amount of flexure.

1,424,050. SUPPORT AND CUTTER. HOCKLEY M. THOMAS and MARTIN FOGEL, New York, N. Y.; said Fogel assignor to said Thomas. Filed Jan. 3, 1921. Serial No. 434,659. 10 Claims. (Cl. 164—73.)

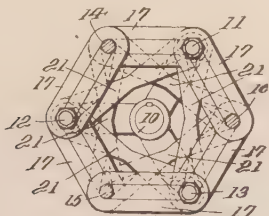


1. A supporting device for material adapted to lie in a vertical plane, including a base, a column extending

upwardly from said base, a traveler slidably mounted upon said column, cutting means for said material secured to said traveler and means connecting said column with the material to be cut at a point adjacent the upper edge of the latter.

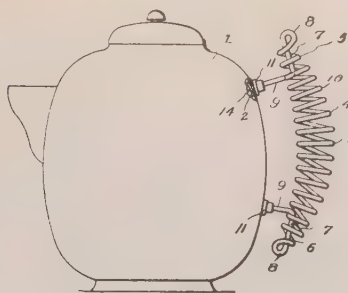
1,424,051. UNIVERSAL JOINT. HERBERT N. WAYNE, Washington, D. C. Filed Dec. 23, 1920. Serial No. 432,672. 9 Claims. (Cl. 64—97.)

9. In a power coupling, a series of studs extending from each coupling member, and a flexible loop for connecting pairs of said studs, said loop being formed of cords laid one upon the other and the loops formed by joining each side portion thereof between the ends with the opposite side portions to form a crossing of said



intermediate portion, the cords of the several layers in one portion joining with the cords of the other portion in reverse arrangement, as and for the purpose set forth.

1,424,052. HANDLE. EMIL A. WEIBEL, Fairbank, Iowa. Filed Apr. 8, 1921. Serial No. 459,815. 1 Claim. (Cl. 16—120.)

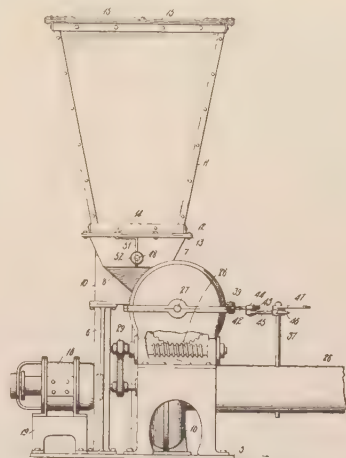


A detachable handle constructed from wire bent to form convolutions, and L shaped ends a portion of which is arranged within certain of said convolution, and nuts for clamping the ends to an article.

1,424,053. PULVERIZED-FUEL CARBURETOR AND FEEDER. WILLIAM H. WHITAKER, Shelbyville, Ill., assignor to American Atomized Fuel Company, Shelbyville, Ill., a Corporation of South Dakota. Filed Oct. 5, 1920. Serial No. 414,926. 2 Claims. (Cl. 302—42.)

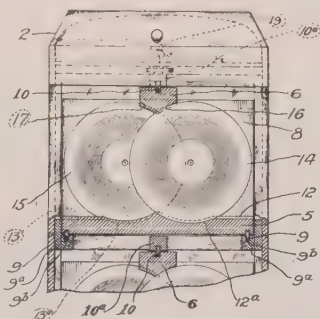
1. A fuel feeder and carburetor comprising a hopper, a cylindrical chamber at its lower end and communicating therewith, a roller in the chamber having a plurality of parallel grooves in its periphery, a plurality of slidable members mounted in the grooves and capable of filling all or part of the latter, a slidable member to which the slidable members are connected, a fan having an inlet and outlet, an air pipe communicating therewith, a passageway communicating with the chamber and fan, a shaft journaled in the air pipe, a valve fixed thereto, a forked lever pivotally mounted at one end and having

operative connection with the slidable member, a link pivotally connected with the opposite end of the lever, an arm fixed to the shaft and operatively connected with the link, an operating handle on the shaft whereby to simultaneously control the valve and shift the slidable



member to position the slidable members at the desired point in the grooves, a motor for driving the fan, and driving means between the motor and feed roller.

1,424,054. PHONOGRAPH-RECORD CABINET. ALFRED WIEHL, Brooklyn, N. Y. Filed Oct. 11, 1920. Serial No. 416,126. 6 Claims. (Cl. 211—16.)

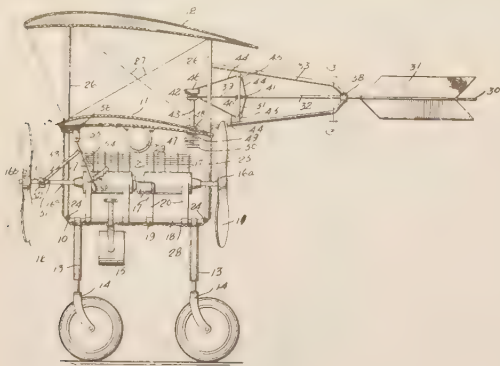


2. A phonograph record cabinet comprising a drawer, a fixed front and floor thereof and a fixed medial longitudinal member extending from the top of the front and rigidly connected to the floor at the rear, a series of parallel grooves in said floor and extending inwardly from each side thereof, a relatively depressed grooved section formed in adjacent grooves alternately on opposite sides of the middle of the drawer, adapted to engage a substantial portion of the periphery of a record.

1,424,055. AEROPLANE. EUGENE WILDER, Boulder, Colo. Filed Aug. 9, 1921. Serial No. 490,907. 2 Claims. (Cl. 244—14.)

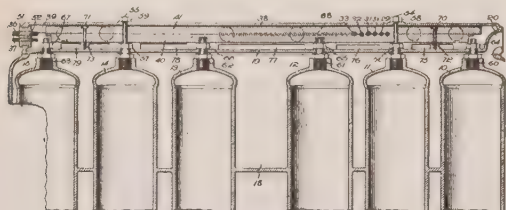
1. An aeroplane comprising a body frame enclosed by screen material and separated by vertical partitions into compartments, said frame comprising bottom members and standards rising from the bottom members, upper and lower planes, the lower plane being supported on said

body frame and the standards of said body frame being extended upwardly beyond the bottom plane and con-



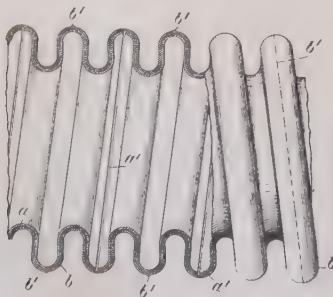
stituting supporting posts for the upper plane, there being additional posts between the upper and lower planes beyond the body frame.

1,424,056. IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. NIKLAS WINBLAD, Stepney, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed July 18, 1918. Serial No. 245,489. 20 Claims. (Cl. 123—143.)



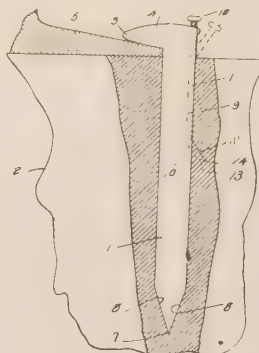
1. In an ignition apparatus for internal combustion engines, the combination of a spark-plug, a cable leading to said spark-plug, and a divided housing presenting a longitudinal chamber formed partly within each division and enclosing said cable, the latter being received partly in each division.

1,424,057. FLEXIBLE METAL HOSE. EMIL WITZENMANN, Pforzheim, Germany. Filed Apr. 29, 1921. Serial No. 465,515. 2 Claims. (Cl. 137—70.)



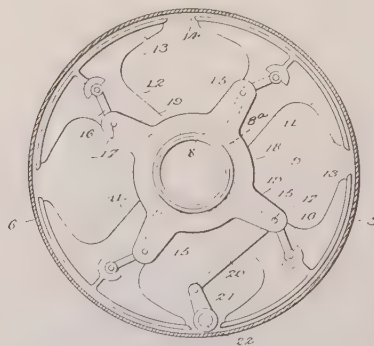
1. A flexible metal hose, consisting of two single hose one arranged inside the other and each formed by winding a metal band of a similar corrugated cross-section into the shape of a cylindrical spiral, the adjacent edges of the windings of the band forming the outer hose being joined by welding and the edges of the inner hose being adapted to be displaced relatively to each other.

1,424,058. SPIKE. WILLIAM W. YEHLLING, Butte, Mont. Filed June 29, 1920. Serial No. 392,705. 1 Claim. (Cl. 85—23.)



A spike having a substantially longitudinally disposed grooves in a side wall thereof, and a deflecting surface at the base of said groove, an anchoring pin for insertion into said groove, said pin having a deflected surface at its lower end for cooperation with said surface to deflect the lower end of said pin into the element receiving the spike, said pin being provided with a bevelled surface extending from the opposite side of the spike to its deflected end aforesaid in order to prevent engagement of the lower end of the pin with said element until deflected thereinto through coaction of the deflecting surface.

1,424,059. BRAKE. GEORGE B. YOUNGS, New York, N. Y. Filed May 11, 1920. Serial No. 380,458. 4 Claims. (Cl. 188—79.)

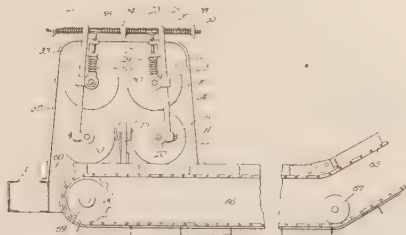


1. In a device of the class described, the combination of a brake drum; a plurality of brake blocks movable radially thereof; a pair of toggle links for each of said blocks, each of said pairs having one link pivoted to the respective block and the other to a stationary part; and a web mounted for rotary movement and connected to each pair of toggle links at their knuckle.

1,424,060. HUSKER. GEORGE W. ZIEBER, Ethan, S. Dak. Filed Mar. 4, 1922. Serial No. 541,151. 2 Claims. (Cl. 130—5.)

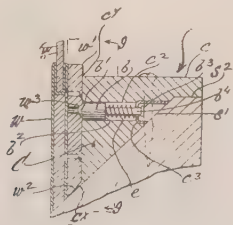
1. In a corn husking machine the combination, a wheeled frame, snapping rolls supported at a downward angle from the front thereof, said rolls having fluted bodies and conical threaded lower ends, a guard to the outer side of each of the rolls, husking rolls horizontally supported in superimposed pairs on the frame, spring means influencing the upper toward the lower husking rolls, a trough at the outer side of the snapping rolls and between the cooperating

pairs of husking rolls, an endless conveyor in the trough, means for operating the same, means for simultaneously revolving the snapping and husking rolls, means receiving



the corn from the husking rolls to deliver the same to one side of the frame, and operating means for said last mentioned means.

1,424,061. SECURING MEANS FOR AUTOMOBILE TOP CLOSURES. HARRY E. ADAMS, New York, N. Y. Filed Mar. 7, 1921. Serial No. 450,375. 4 Claims. (Cl. 296—45.)



1. Securing means for an automobile top closure panel of the character designated, comprising a plurality of automatic locking devices each consisting of a dovetail coupling tongue secured to the lower member of the panel frame, said coupling tongue being formed with a bolt mortise, a casing mounted on the car sill and formed with a dovetail groove for the reception of said dovetail coupling tongue on the panel, and a peak nosed sprong bolt mounted in said casing and adapted to engage the said mortise in the coupling tongue, for the purpose described.

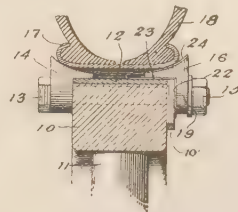
1,424,062. HIGH-TEMPERATURE DEVELOPMENT OF PHOTOGRAPHIC MATERIALS. ALEXANDER JOHNSTON AGNEW and FRANK FORSTER RENWICK, Ilford, England, assignors to Ilford Limited, Ilford, England. Filed Feb. 28, 1919. Serial No. 279,882. 10 Claims. (Cl. 95—88.)

1. A composition for treating gelatine-surfaced photographic materials for hardening them only, comprising a substance adapted to yield formaldehyde together with a relatively greater amount of a salt of the known class which tends to raise the melting point of a gelatine jelly and to retard or restrict the swelling of gelatine in water.

1,424,063. SHIM. JEFFERSON H. AKINS, Lewistown, Mont. Filed Oct. 23, 1916. Serial No. 127,282. 5 Claims. (Cl. 301—20.)

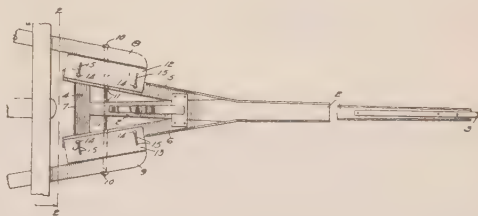
1. An auxiliary for clamping lugs of demountable rims comprising a strip of sheet metal having one end portion provided with a longitudinal slot to receive a bolt, the intermediate portion of the strip being bent to extend at right angles to said end portion a distance, the other end

portion being bent inward over the said intermediate portion at an acute angle, and away from the first named end



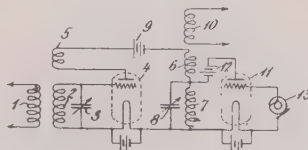
portion, and being extended beyond the junction of said intermediate portion and first mentioned end portion.

1,424,064. WAGON TONGUE. JOHN H. ANDERSON, St. Paul, Minn. Filed Apr. 3, 1918. Serial No. 226,421. 1 Claim. (Cl. 278—43.)



The combination, with the wagon hounds, of angle plates having their vertical flanges seated against the inner faces of said hounds and their horizontal flanges projecting into the space between said hounds, a tongue adapted to lie between said wagon hounds and having tongue hounds on which said horizontal flanges are seated, said horizontal flanges each having a plurality of transverse rows or holes therein through which the proper places for the bolt holes in the tongue hounds may be marked, bolts passing vertically through the holes in said horizontal flanges and through the holes made in said tongue hounds, and a horizontal bolt passing transversely through said wagon and tongue hounds and the vertical flanges of said plates.

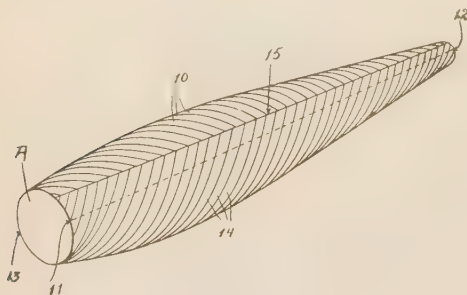
1,424,065. SIGNALING SYSTEM. EDWIN H. ARMSTRONG, Yonkers, N. Y. Filed June 27, 1921. Serial No. 480,563. 17 Claims. (Cl. 179—171.)



1. The method of amplifying varying electric currents which comprises impressing the varying potential of the current to be amplified upon a feedback system having a certain degree of damping, and periodically altering the relation between the amount of feedback and the degree of damping of the system, whereby super-regenerative action is obtained.

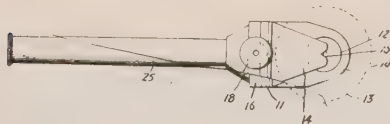
16. A vacuum tube regenerative system comprising a feedback circuit having damping and adjusted near the point of oscillation, an oscillating feedback circuit associated therewith and means by which it causes a periodic variation in both the amount of feedback and the damping of said first circuit, whereby super-regenerative action is obtained.

- 1,424,066. AEROPLANE FUSELAGE AND PROCESS OF BUILDING SAME. ERROLD G. BAHL, Lincoln, Nebr. Filed June 24, 1921. Serial No. 480,215. 6 Claims. (Cl. 244—30.)



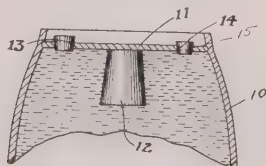
1. An aeroplane fuselage comprising a plurality of superposed layers secured together permanently, each layer being formed of a plurality of sections with the joints of the sections of the successive layers arranged in staggered relation, each section being formed of a plurality of strips.

- 1,424,067. GAUGE FOR LAMPS. RALPH BEMAN, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,507. 4 Claims. (Cl. 33—180.)



1. In a device for gauging the light center length of an incandescent lamp, the combination of sighting means, a holder mounted thereon for receiving the said lamp and means whereby said holder may be moved with reference to said sighting means, said device being provided with means whereby the extent of said movement may be indicated.

- 1,424,068. ATTACHMENT FOR HYDROCARBON CONTAINERS. JOHN BINGMAN, Mount Tabor, Wis. Filed June 19, 1919. Serial No. 305,250. 2 Claims. (Cl. 220—85.)

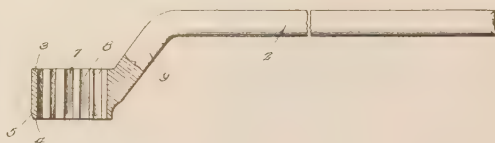


1. The combination with a liquid containing barrel, and the head thereof, of a downwardly flaring pocket mounted on the lower face of said head and projecting downwardly, its upper end being closed and its lower end open, for the purpose described.

- 1,424,069. WRENCH. FRED W. BLACKMAR, Providence, R. I., assignor of one-half to Lewis M. Blackmar, Providence, R. I. Filed Apr. 22, 1921. Serial No. 463,628. 3 Claims. (Cl. 81—121.)

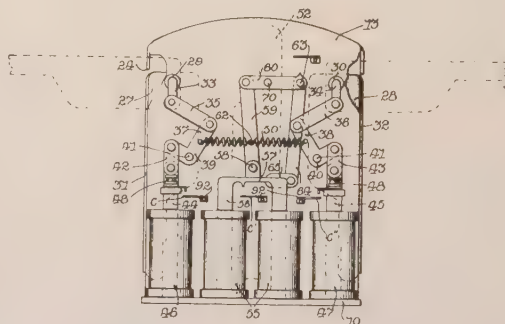
1. A socket wrench comprising a cylindrical head, a handle, and a shank connecting one side of the head and the handle, the said handle and one end of the head

occupying substantially parallel planes, and the said shank extending diagonally beyond the said end of the head and between the same and the handle, and the juncture of the shank with the side of the head being spaced inwardly from the plane of the opposite end of the head,



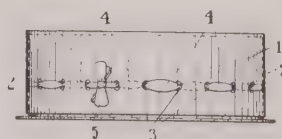
the internal wall of the head being provided with a circumferential series of notches to receive the corners of a nut or the like, and the head being exteriorly tapered circumferentially in the direction away from the juncture of the shank with the head.

- 1,424,070. AUTOMOBILE DIRECTION INDICATOR. JAMES B. BLAIR, Decatur, Ill.; Ora Mueller Blair administratrix of said James B. Blair, deceased. Filed Sept. 20, 1917. Serial No. 192,268. 3 Claims. (Cl. 177—337.)



1. In an indicator, the combination with a plurality of electromagnets adapted to be actuated upon change of motion of a vehicle, of a series of levers connected at one end to said electromagnets, crank arms connected at the opposite end to said levers, signal members on said crank arms indicating change of motion either lateral or cessational, two of said signal members projecting outwardly for lateral change and the other projecting upwardly for cessational change and common spring means for assisting the return of said signal members.

- 1,424,071. BOX AND THE LIKE. STANLEY SEPTIMUS BOOTY, London, England. Filed July 7, 1920. Serial No. 394,452. 1 Claim. (Cl. 229—46.)

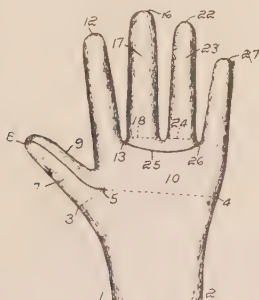


A box comprising lid and body portions adapted to be telescopically engaged one with the other and having curved walls, holes spaced apart circumferentially in the wall of the lid portion, a band threaded through the

holes and stretched sufficiently taut between them to secure a firm frictional connection between the lid and body portions.

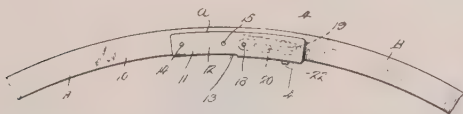
1,424,072. GLOVE AND METHOD OF MAKING SAME.

GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Sept. 6, 1918. Serial No. 252,965. 2 Claims. (Cl. 66—4.)



1. A knitted glove formed in one continuous piece and having a circularly knitted, seamless wrist and hand, and a thumb, and fingers integral with the hand, each finger being knitted as a flat, oppositely selvaged strip, the first and fourth fingers each being formed of a flat, oppositely selvaged strip of sufficient width to encircle the finger, and seamed only along their inner edges and being integral continuations of the hand, and the second and third finger strips being integral continuations of the back of the hand and being each of twice the length of the finger and seamed along their opposite edges, said second and third finger strips having as an integral knitted continuation thereof a strip of the width of both fingers, said continuation being seamed across the palm of the hand from the first to the fourth finger strips.

1,424,073. COLLAPSIBLE TIRE RIM. JOHN H. BOWLES, New York, N. Y. Filed Sept. 3, 1921. Serial No. 498,221. 3 Claims. (Cl. 301—34.)

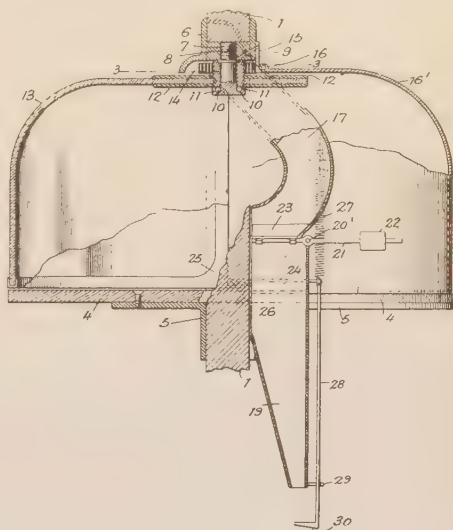


1. A tire rim split at one point, the tire rim being trough-shaped in cross section, a lever trough-shaped in cross section and having longitudinally extending ears pivoted to one of the sections of the rim at their extremities and pivoted intermediate their extremities to the other section of the rim, whereby upon an oscillation of the lever the rim sections may be shifted into or out of alignment with each other, a socket formed in that end of the lever remote from its pivotal connection to the first named section, and means for locking the lever in a radial position with the rim sections in offset relation to each other.

1,424,074. VENDING APPARATUS. EDWARD COLTON BOYCE, Washington, D. C. Filed June 7, 1922. Serial No. 566,574. 7 Claims. (Cl. 194—1.)

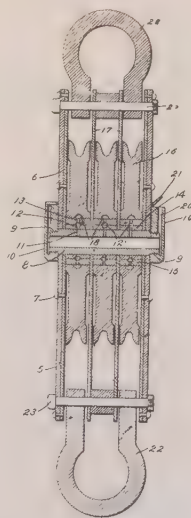
1. In a vending apparatus, the combination of a support provided with an opening, a shelf extending from

one side of said opening, a rotatable cover for said shelf, means for securing said cover in closed position, coin



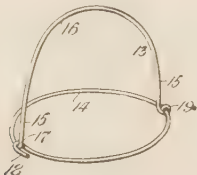
operated means for releasing said cover, and means for moving said cover to open position when released.

1,424,075. TRAVELING BLOCK. BURWELL BOYKIN, Jr., Beaumont, Tex. Filed Dec. 16, 1920. Serial No. 431,216. 1 Claim. (Cl. 254—192.)



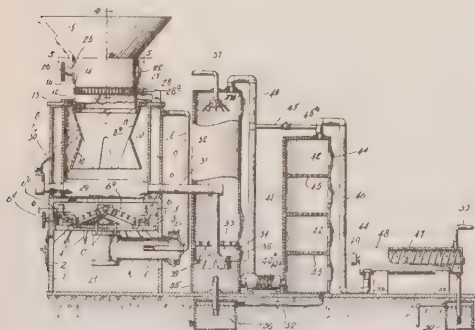
In a device of the character described, side plates having openings, a hollow shaft extending through the openings, said shaft having threaded ends, cups having threaded openings positioned over the threaded ends and adapted to engage the side plates to secure the same in position, spacing plates supported on the shaft and disposed between the side plates, said shaft having openings extending through the wall thereof, bearing members having openings and mounted on the shaft, pulleys disposed between the spacing plates and mounted on the bearings, said pulleys having openings to receive a lubricant from the hollow shaft.

1,424,076. CARRIER FOR BOTTLES, ETC. ANTHONY F. BRAUTIGAM, Buffalo, N. Y., assignor of one-half to Abraham M. Rudiger, Buffalo, N. Y. Filed Sept. 10, 1919. Serial No. 322,822. 1 Claim. (Cl. 215—108.)



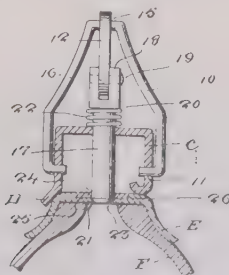
A bottle carrier constructed from a single piece of wire which is bent to form an upright U-shaped handle having two vertical upright arms and a bow connecting the upper ends of said arms, a horizontal supporting ring having a single split one end of which is integrally connected with the lower end of one of said arms and forms a corner therebetween, a hook formed integrally on the other end of said ring and engaging detachably with said corner, and an eye formed integrally with the lower end of the other arm of said handle and permanently embracing said ring diametrically opposite the hook thereof.

1,424,077. GAS PRODUCER AND PROCESS. ELBERT M. BRAXTON, Fort Worth, Tex., assignor of one-half to Mabel R. Spellman, Dallas, Tex. Filed Nov. 18, 1921. Serial No. 516,147. 4 Claims. (Cl. 48—66.)



4. The herein described process for producing gas from lignite, which involves ignition of a bed of lignite of substantially cone shape on its under side and the constant rotation thereof to form gas, superheating the gas at a point adjacent to the apex of the under side of the bed, and then in conducting the gas after superheating to be cleaned, cooled and dried.

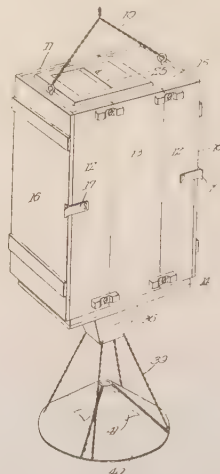
1,424,078. RIM FASTENER. WILLIAM BROADWAY and THOMAS C. PLEDGER, Oklahoma, Okla.; said Broadway assignor to said Pledger. Filed Apr. 11, 1921. Serial No. 460,215. 2 Claims. (Cl. 301—21.)



1. In a wheel including a felly and a demountable rim disposed thereon, means for locking the rim upon the felly

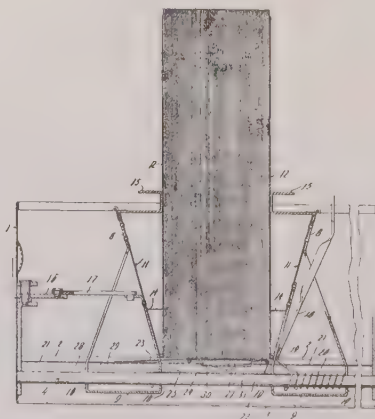
comprising a series of locking devices disposed throughout the inner periphery of the felly and each comprising a spring pressed plunger slidable through the felly, a socket member carried by the inner periphery of the rim at each locking member and adapted to receive the plunger, and cam means for forcing said plunger outwardly into engagement with the socket.

1,424,079. POULTRY FEEDER. CHARLES EDWARD CANELL, Portland, Oreg., assignor of one-half to Edward T. White, Everett, Wash. Filed Oct. 24, 1921. Serial No. 509,909. 5 Claims. (Cl. 161—10.)



1. A feeder of the character described comprising a casing provided with filling means whereby grain may be introduced therinto, the casing being provided in its bottom with an outlet opening, a trap door normally closing said opening, a spring-pressed catch engaging said trap door whereby to hold the same closed, and time controlled electrically operated means mounted within the casing for moving said catch out of engagement with the trap door, said means including a clock switch mounted directly within the casing.

1,424,080. FILING TRAY OR DRAWER. CHARLES C. CARPENTER, Cincinnati, Ohio, assignor to The Samuel C. Tatum Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 21, 1918. Serial No. 235,876. 11 Claims. (Cl. 129—16.)

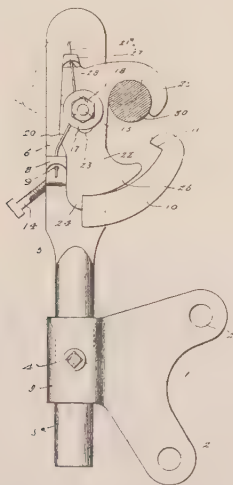


2. In a card filing drawer or tray, a casing, a pair of followers movably supported within the casing between which the cards to be filed are packed, each follower comprising a frame member, and a card engaging plate

hingedly mounted upon said frame for supporting the cards in inclined or upright positions.

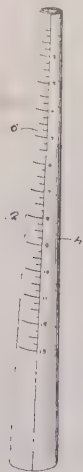
9. In a device of the class described, a casing for supporting a pack of cards, a platform mounted within the casing beneath the cards, composed of two hingedly united sections, and means for moving said sections to relatively oppositely inclined positions to elevate the cards engaged thereby to bring their fingering edges in an offset relation to one another.

1,424,081. CLUTCH-LEVER RETAINER. MARTIN L. CLINE and FRANK HERGE, Malinta, Ohio. Filed July 8, 1921. Serial No. 483,347. 5 Claims. (Cl. 74—81.)



1. The combination in a retainer, of a frame having stops, a sliding and swinging dog connected and movable with respect to the frame and having an arm to engage a device to be held and also having a stop, the latter for cooperation with the stops of the frame, and a spring to move the dog clear of the device to be held thereby for the release of said device.

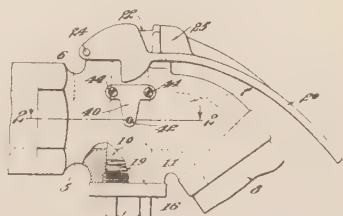
1,424,082. RING GAUGE. MORTIMER L. CLOPTON, Wichita Falls, Tex. Filed May 6, 1921. Serial No. 467,382. 1 Claim. (Cl. 33—178.)



A ring gauge comprising a hollow tapered tube of a material susceptible to distortion to change the shape

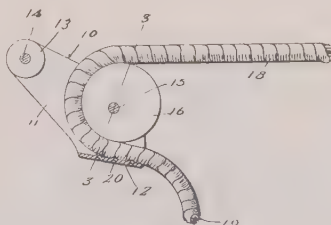
thereof when a ring has been inserted thereover and forcibly brought thereagainst and adapted to conform itself to the shape of the ring without changing the circumference of the tube.

1,424,083. SHUT-OFF VALVE FOR AIR-BRAKE PIPES. ALBERT L. COLE, Auburndale, Mass., assignor of one-fourth to Francis J. V. Dakin, Newtonville, Mass., and one-fourth to Frank A. Tilton, South Braintree, Mass. Filed July 6, 1920. Serial No. 394,106. 4 Claims. (Cl. 251—94.)



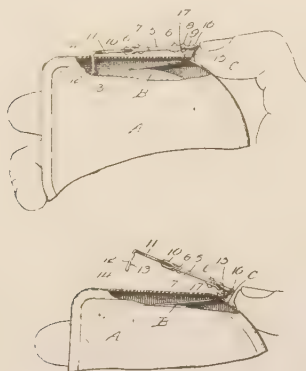
1. A shut-off valve for air-brake pipes on railroad cars comprising a valve casing, a valve mounted in said casing, said valve casing and said valve being each provided with a port, said ports being so arranged that a clear and unobstructed passage is provided for the air to escape from the pipe on one side of said valve when the latter is in a closed position and means affixed to the outside of said valve casing for closing the outer end of said port in said valve casing; said means being flat and substantially flush with the outer surface of said valve casing and rigidly fixed against lateral movement yet resilient to permit the escape of compressed air from said last mentioned port.

1,424,084. CLOTHESLINE ADJUSTER. GLAUDEL COLE, Poughkeepsie, N. Y. Filed Mar. 19, 1920. Serial No. 367,059. 1 Claim. (Cl. 24—134.)



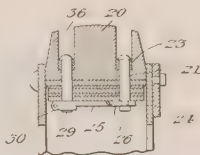
A device of the class described comprising a bracket formed from a single piece of material and bent to provide a pair of parallel inclined side bearing plates having aligned openings therein, a transverse web connecting one end of said plates and provided with a plurality of transverse inwardly extending projections, a rivet passing through said openings in said bearing plates, a roller eccentrically mounted on said rivet and cooperating with said projections to provide a clamp, spaced ears extending from the opposite ends of said plates and having aligned openings therein, a rivet extending through the openings in said ears and a roller rotatably mounted on the last mentioned rivet.

1,424,085. LATCH RELEASE FOR TAPES. CHARLES W. CROGAN, Bangor, Me. Filed Oct. 16, 1920. Serial No. 417,307. 16 Claims. (Cl. 83—138.)



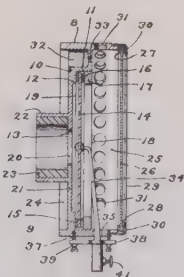
1. In a line terminal for engagement with a casing, a latching element and a fulcrum connection between the element and the line to coact with the casing for the automatic release of said element when manually actuated.

1,424,086. VEHICLE WHEEL AND RESILIENT TIRE THEREFOR. FELIX DE BORGGRAVE, Chicago, Ill. Filed June 17, 1921. Serial No. 478,376. 4 Claims. (Cl. 152—8.)



4. In a vehicle wheel, the combination of a plurality of circular leaf springs, flanges for preventing relative lateral movement of said springs, spokes carried by said flanges, bolts connecting said flanges, a locking ring for locking said bolts and flanges in position, a plurality of cushioning tread members mounted upon the outermost of said springs in circumferentially spaced relation one to another, bolts extending through said springs and tread members, locking members engaging said bolts for preventing relative movement of the tread members and springs, handles formed upon said ring for moving the same, links pivoted to said handles and adapted to be bolted to certain of said spokes for locking the locking ring against movement.

1,424,087. REPRODUCER. CHARLES J. DEL'MARMOL, Frankford, Pa. Filed Sept. 6, 1921. Serial No. 498,775. 2 Claims. (Cl. 274—27.)



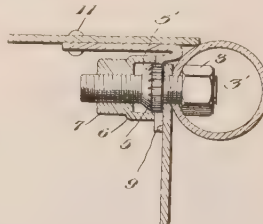
1. A sound box comprising a cylindric body, an apertured wall closing one end of said body and formed with

a peripheral enlargement, a diaphragm, a supplemental diaphragm closing the other end of the cylindric body and forming an amplifying chamber, said enlargement being apertured and said cylindric body being apertured around the amplifying chamber.

1,424,088. COMPOSITION FOR COATING METALS FOR THE PURPOSE OF PERMITTING ELECTRIC CURRENTS TO OPERATE BY THE ACTION OF LIGHT. HILBERT L. FALK, New Orleans, La., assignor to Lyndon D. Wood, Philadelphia, Pa. Filed Dec. 10, 1921. Serial No. 521,477. 3 Claims. (Cl. 219—76.)

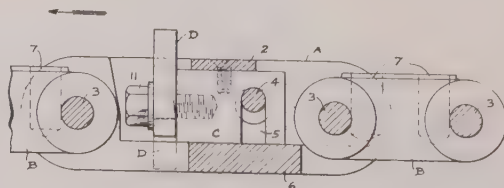
1. A composition for coating surfaces for the purpose of permitting electric currents to operate by the action of light comprising a mixture of platinum-barium-cyanide of potassium crystals, crude sulphur, tungstate of soda, calcium chloride, and selenium crystals.

1,424,089. RAIL-FASTENING DEVICE FOR BEDS AND THE LIKE. JOHN FINDURA, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 3, 1921. Serial No. 442,041. 9 Claims. (Cl. 5—55.)



1. In a bed, a post having a lateral hole therein, a threaded stud mounted in said hole, means securing the stud in position and located inside said post, a foot or head rail mounted on said stud outside said post, a nut or support holding said rail in position on said stud and against the outer face of said post, a second or side rail having a recessed end portion with a face having a contour corresponding to the contour of the said post, such recessed portion fitting over the said nut or support, a clamping member loosely mounted on the stud and another nut on said stud arranged to bear against the clamping member and force it against the said end portion of the second rail to hold it on said second nut or support and against said post.

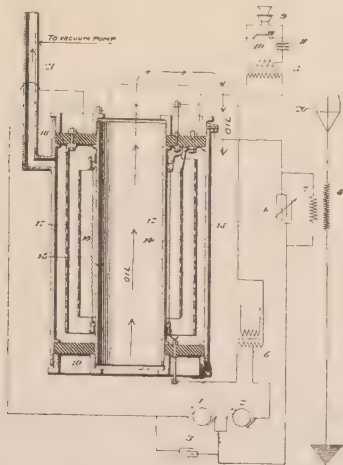
1,424,090. FEEDING CHAIN FOR WOODWORKING AND OTHER MACHINES. CHESTER B. FOSTER AND FRANK H. CLEMENT, Rochester, N. Y.; Louisa S. Clement, Mary G. Clement, and Benj. H. Clement executors of said Frank H. Clement, deceased; said executors assignors of the entire right of said Frank H. Clement, deceased, to American Woodworking Machinery Company, Rochester, N. Y., a Corporation of Pennsylvania; said Foster assignor of his entire right to American Woodworking Machinery Company, Rochester, N. Y., a Corporation of New York. Filed May 27, 1919. Serial No. 300,146. 6 Claims. (Cl. 198—176.)



1. The combination in a feeding chain of a main link, a block fitted to slide longitudinally in said link, a feed-

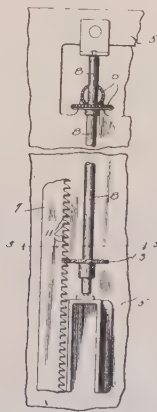
ing dog made vertically adjustable on the sliding block and means for positively adjusting the sliding block longitudinally in the main link.

1,424,091. RADIOELECTRON OSCILLATOR. CLAUDE R. FOUNTAIN, Macon, Ga. Filed Jan. 21, 1919. Serial No. 272,357. 4 Claims. (Cl. 250—27.)



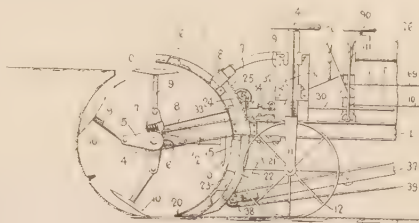
1. In a radio-electron oscillator, a source of electrons, an attracting medium, a grid in front and a medium behind said source and possessed of the capacity of synchronous action to change the speed of electrons toward the attracting medium, the said attracting medium being so perforated that some of the electrons may pass on to another medium, where their impacts may free other electrons, and the said second named medium.

1,424,092. CALL CLOCK. CHESTER R. GAINS, Colfax, Iowa, assignor of one-half to Samuel A. Potts, Muscatine, Iowa. Filed June 7, 1921. Serial No. 475,751. 1 Claim. (Cl. 58—116.)



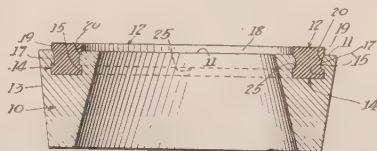
The combination with a rotatable shaft, of a longitudinally movable rack bar having the teeth thereof beveled obliquely with respect to the horizontal, at one side thereof, a disk fixed to rotate with the shaft, a plurality of spaced horizontally arranged teeth carried thereby and having their edges beveled so as to pass the beveled face of the teeth on the rack bar, the latter being adapted to successively rest upon the upper face of the disk and to subsequently pass between two adjacent teeth of the latter.

1,424,093. EXCAVATOR. JOHN A. GILMAN, American Lake, Wash. Filed Sept. 4, 1920. Serial No. 408,202. 7 Claims. (Cl. 37—11.)



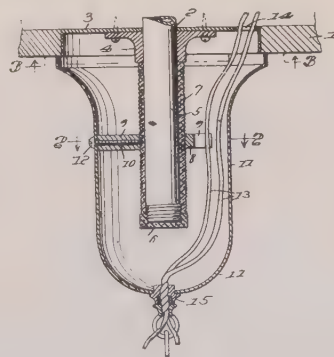
1. An excavator comprising a supporting frame, a bracket mounted upon the frame, means for moving the bracket transversely of the frame, a plurality of sets of cutters carried by the bracket, the sets being spaced apart and means for operating the cutters.

1,424,094. VALVE SEAT. ROBERT W. GUNN and WILLSIE A. S. THOMPSON, Los Angeles, Calif. Filed May 17, 1920, Serial No. 381,808. Renewed June 19, 1922. Serial No. 569,574. 3 Claims. (Cl. 251—167.)



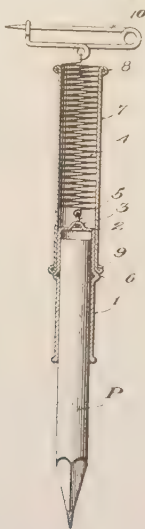
3. A valve member with a seating ring groove having a middle portion of uniform width, an inner portion wider than the middle portion, and an outer portion diverging outwardly from the middle portion.

1,424,095. ELECTRIC-LIGHTING FIXTURE. PLINY L. HAILSLIP, Washington, D. C. Filed Oct. 11, 1921. Serial No. 507,059. 5 Claims. (Cl. 240—85.)



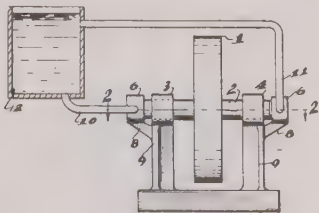
1. An electric light fitting including supporting means, a sleeve of insulating material carried by the supporting means and having external threads, a ring adjustably mounted on said sleeve and having internal threads engaging the threads of the sleeve, a fixture cap carried by said ring, and means accessible from the exterior of said cap for securing the cap to the ring.

1,424,096. PENCIL ATTACHMENT. CHARLES E. HANSEN, Providence, R. I. Filed Apr. 5, 1922. Serial No. 549,845. 6 Claims. (Cl. 24—12.)



1. In a pencil attachment, a cap having a closed end with a struck-out ring and having a bead intermediate its ends, said cap being formed to frictionally engage over a pencil end, a sleeve formed to frictionally fit over the outer end of the cap and to engage the bead of the cap at one end and having its opposite end open, a coil spring capable of being housed within the sleeve and having one end connected to the ring, and a safety pin connected to the other end of the spring and disposed without the sleeve for securement to the garment of the user.

1,424,097. WATER-COOLED BEARING. JOHN HERMAN, Los Angeles, Calif. Filed July 22, 1920. Serial No. 398,166. 2 Claims. (Cl. 257—1.)

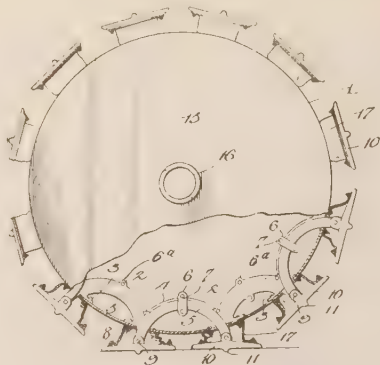


2. The combination with a rotatable member, of means for circulating a cooling fluid through said rotatable member, said circulating means including a thermosiphon circulation of said fluid, and also means for pumping said liquid actuated by the rotation of said member.

1,424,098. TRACTOR WHEEL. HARRY G. HOWARD, Greenwich, N. Y. Filed Sept. 14, 1920. Serial No. 410,139. 4 Claims. (Cl. 305—13.)

1. In a device of the class described, the combination of

a rim, a plurality of series of arcuate members slidably mounted in said rim, a plurality of tread members each



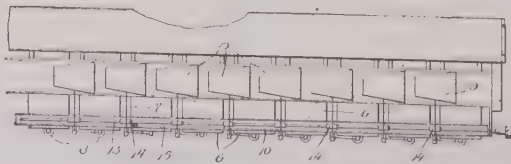
pivotaly secured to a plurality of said arcuate members, and arcuate housings for said arcuate members.

1,424,099. COLLAPSIBLE SHIPPING CONTAINER. NANNIE K. HUNT, Adolphus, Ky. Filed Mar. 21, 1922. Serial No. 545,553. 2 Claims. (Cl. 220—8.)



1. A collapsible container comprising a plurality of annular interengaging elements and a plurality of braces, each of said braces comprising a plurality of sections, means for connecting the several sections of said braces detachably together in such manner that when said sections are connected the braces are vertically rigid, said means comprising slots formed in some of the sections and offset projections upon other of the sections engageable in said slots and interengaging elements between the uppermost and lowermost sections of the container and the uppermost and lowermost sections of the braces.

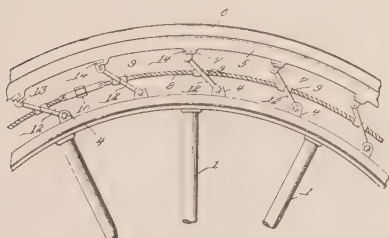
1,424,100. ATTACHMENT FOR CONE-WINDING MACHINES. ADOLPH A. JOHNSON, Hanes, N. C., assignor of one-fifth to S. B. Hanes and one-fifth to D. A. Ricks, both of Hanes, N. C. Filed July 26, 1921. Serial No. 487,795. 1 Claim. (Cl. 28—59.)



A cone winding machine for winding a plurality of cones, means for winding yarn upon said cones, means for moistening the yarn, said last mentioned means comprising a water containing trough mounted adjacent the cones, a fixed shaft extending longitudinally of the trough, said

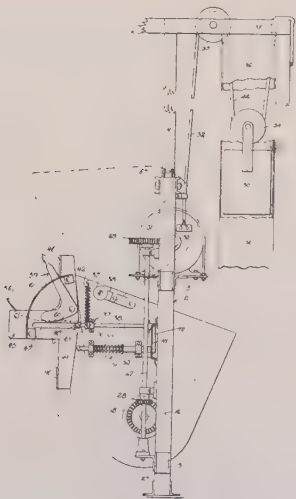
shaft being partially submerged in the water, enlargements rotatably mounted on said shaft, there being an enlargement for each cone, said enlargements arranged in the path of the yarn and being engaged and rotated by the yarn as the yarn is being wound on the cones.

- 1,424,101. RESILIENT WHEEL. CARL JOHNSON, San Francisco, Calif. Filed Nov. 12, 1920. Serial No. 423,528. 3 Claims. (Cl. 152—32.)



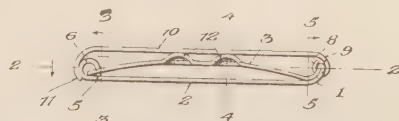
3. In a resilient wheel structure, the combination of inner and outer annular bands, an annular cable interposed between and spaced from the said bands, and levers pivotally connected with the inner band and similarly connected with the outer band at points in advance of the inner connections and receiving the said cable.

- 1,424,102. AGITATING AND DUMPING BUCKET. GEORGE JOHNSON, Brier Hill, Pa. Filed Mar. 28, 1922. Serial No. 547,504. 5 Claims. (Cl. 83—73.)



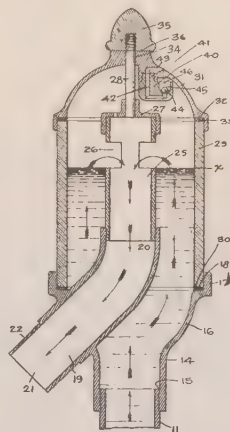
1. In an apparatus of the character described, in combination with a supporting structure, a frame mounted on said structure for movement along the same, a bucket mounted in the frame, a shaft extending through the bucket and supporting the same for tilting movement into discharging and receiving positions, means for releasably securing the bucket in receiving position, agitating members secured on the shaft within said bucket, and means for rotating said shaft during travel of the bucket.

- 1,424,103. LINGERIE CLASP. HAROLD R. JOHNSON, Edgewood, R. I., assignor to Oscar R. Johnson Company, Cranston, R. I. Filed Jan. 21, 1922. Serial No. 530,822. 3 Claims. (Cl. 24—248.)



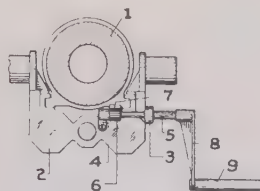
3. In a clasp, a pair of members one of which has a doubled slotted end and a curved end, the other member having a tongue at one end hingedly engaged in the slot and having its opposite end formed to snap into engagement with the curved end of the first member.

- 1,424,104. VISIBLE FLUID GAUGE. MARSHALL W. JOY, San Francisco, Calif. Filed Sept. 2, 1920. Serial No. 407,757. 9 Claims. (Cl. 221—102.)



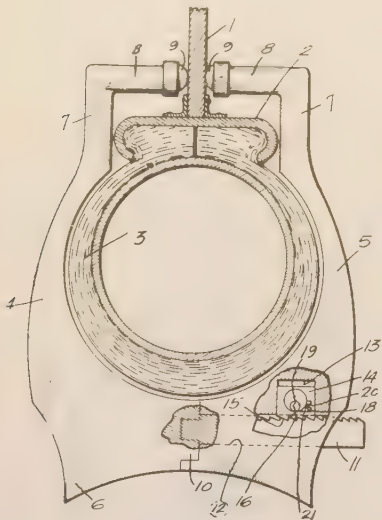
1. A fluid gauge comprising an open ended casing adapted to detachably engage the priming column of a fluid pump; an outlet conduit formed integrally with said casing and substantially in the center thereof; a transparent cylindrical member adapted to be mounted on said casing around said outlet and a closure adapted to be secured to said outlet and to engage said cylindrical member.

- 1,424,105. GUN RETRACTING MECHANISM. BRYAN P. JOYCE, Washington, D. C. Filed May 19, 1922. Serial No. 562,240. 4 Claims. (Cl. 89—40.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



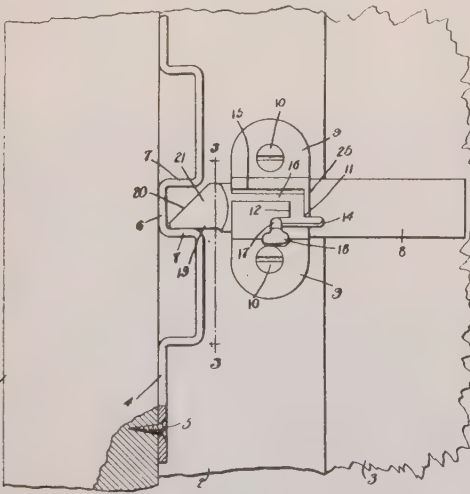
1. A gun retracting mechanism, including a gun barrel, a rack formed thereon and extending longitudinally thereof, a support for the gun barrel, a shaft journaled in said support, a pinion rigid on the shaft and in mesh with the rack and means for rotating the shaft.

1,424,106. AUTOMOBILE THEFT SIGNAL. HARRY M. LAKE and OWEN C. BETRY, Los Angeles, Calif. Filed May 26, 1921. Serial No. 472,843. 5 Claims. (Cl. 70-90.)



1. A device of the character described comprising separable sections adapted to form an annulus, one of said sections having a toothed bolt extending through a bore of the other section, and a locking block in said second section adapted to engage said toothed bolt.

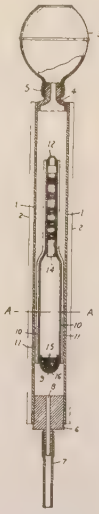
1,424,107. WINDOW LOCK. WILLIAM MARCUS LOWTHORP, Summertown, Tenn. Filed Jan. 11, 1922. Serial No. 528,391. 3 Claims. (Cl. 292-60.)



1. The combination with a frame and a slidable sash, of a rack strip on the frame and having a seat provided with parallel portions; a guide on the sash and having a T-shaped slot including a transverse body, a longitudinal head at one end of the body and a transverse arm at the other end of the body; a bolt slidable in the guide, and a stud projecting from the bolt, the bolt cooperating with one of the parallel portions of the seat to hold the sash against downward movement and the bolt having a beveled end which is so positioned with respect to the other parallel portions of the seat that the sash may be raised when the

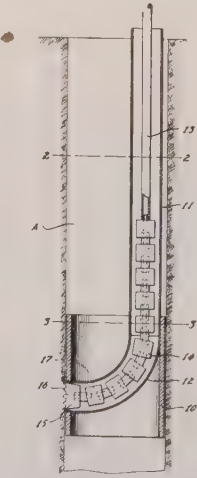
stud is at one end of the head of the slot, the stud being movable to the other end of the head of the slot to permit a lowering of the sash, the bolt having parallel surfaces, and being rotatable to permit said surfaces to coact with the parallel portions of the seat thereby to hold the sash against upward movement and downward movement, the stud being adapted to enter the extension of the slot by way of the body of the slot, thereby to hold the bolt against rotation; and spring means in the guide for advancing the bolt.

1,424,108. HYDROMETER. JOSEPH O. LUTHY, San Antonio, Tex. Filed Sept. 22, 1916. Serial No. 121,617. 7 Claims. (Cl. 265-45.)



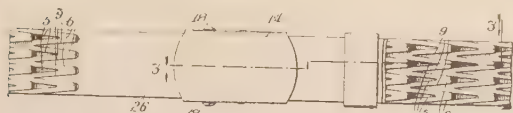
1. A hydrometer or the like, comprising a shell or body portion of celluloid.

1,424,109. DRILLING DEVICE. WILLIAM S. MCBRIDE, Caldwell, Ohio. Filed Feb. 7, 1921. Serial No. 443,115. 5 Claims. (Cl. 255-19.)



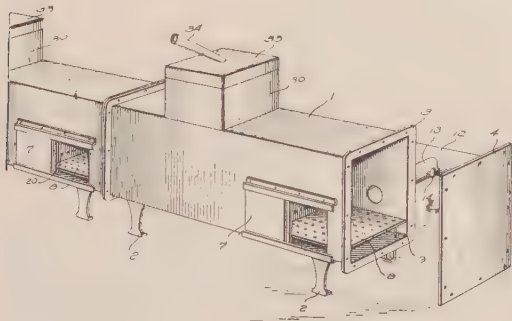
1. A device of the character described comprising a casing insertable within a well, a tube secured to said casing and serving as a handle for governing the position thereof, a hollow flexible shaft extending through said tubing, the lower end of said tubing being curved and extending to the peripheral wall of the casing, and a bit carried by said flexible shaft.

1,424,110. BELT. MICHAEL J. MAAKESTAD, Chicago, Ill. Filed Jan. 20, 1921. Serial No. 438,640. 10 Claims. (Cl. 241—8.)



1. A belt including a plurality of pliable elements comprising a body portion and a plurality of integral tongues extending therefrom, said body portion and tongues being provided with openings, the tongues of each element being threaded through openings of a pair of adjacent elements and folded back for the passage of tongues of succeeding elements.

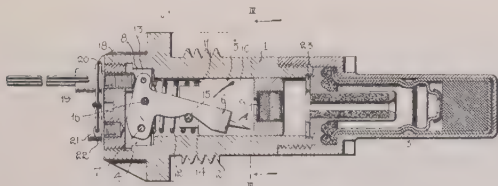
1,424,111. MEDICINAL APPARATUS. AUGUSTUS F. W. MACMANUS, San Antonio, Tex., assignor of one-tenth to J. E. Greer and J. B. Stafford, both of San Antonio, Tex. Filed Jan. 8, 1921. Serial No. 435,847. 9 Claims. (Cl. 167—3.)



1. A medicinal apparatus comprising a fire box, a settling chamber arranged adjacent said fire box, a plurality of baffle plates arranged therein, and a conditioning chamber arranged adjacent said settling chamber and communicating therewith.

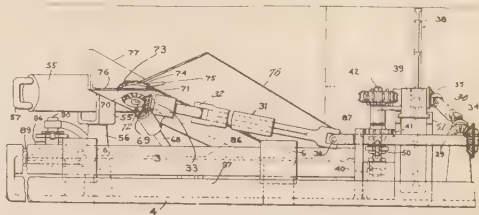
4. A medicinal apparatus comprising a casing, a fire box arranged adjacent one end of said casing, a settling chamber arranged adjacent said fire box, a plurality of baffle plates arranged therein, said plates being alternately secured to the top and bottom of the casing to produce a tortuous passage, and a conditioning chamber arranged adjacent said settling chamber and communicating therewith.

1,424,112. IMPACT FUSE. SETH G. MALBY, U. S. Army, assignor to Secretary of War of the United States of America, trustee. Filed Nov. 16, 1918. Serial No. 262,892. 20 Claims. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



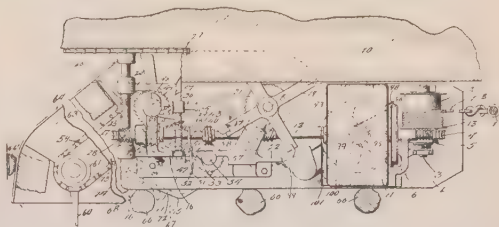
18. A fuse for projectiles, including a movable percussion pellet carrying a primer and a pivotally mounted firing pin normally held with its pin out of alignment with the primer, the pellet and pin cooperating upon movement of the pellet in one direction to bring the firing pin and primer into operative relation.

1,424,113. MINING MACHINE. EDMUND C. MORGAN, Morgan Park, Ill. Filed June 27, 1910, Serial No. 569,173. Renewed May 18, 1916. Serial No. 98,438. 85 Claims. (Cl. 262—9.)



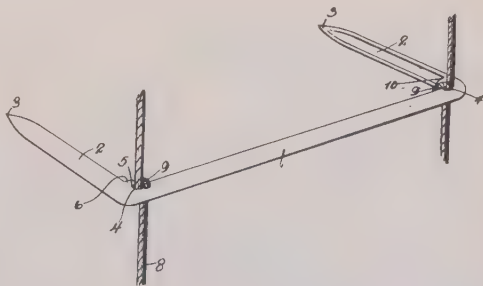
1. In a mining machine, the combination with a supporting frame, of cutting mechanism mounted thereon and movable bodily therewith into positions to cut horizontal kerfs, an additional supporting frame connected to said first-named supporting frame in fixed relation thereto but movable relatively thereto, cutting mechanism mounted on said additional frame and movable bodily therewith into positions to cut upright kerfs transverse to the coal face, and means for operating said cutting mechanisms.

1,424,114. MINING MACHINE. EDMUND C. MORGAN, Morgan Park, Ill. Filed June 27, 1910, Serial No. 569,168. Renewed Jan. 7, 1918. Serial No. 210,796. 59 Claims. (Cl. 262—9.)



1. In a machine of the character described, the combination with means for making two horizontal kerfs in the material to be mined, of means for making a vertical kerf intersecting said horizontal kerfs to form a column, and picking means disposed between the horizontal kerf-making means and operating from the machine directly against the exposed surface of the mine wall for breaking down sections from said column.

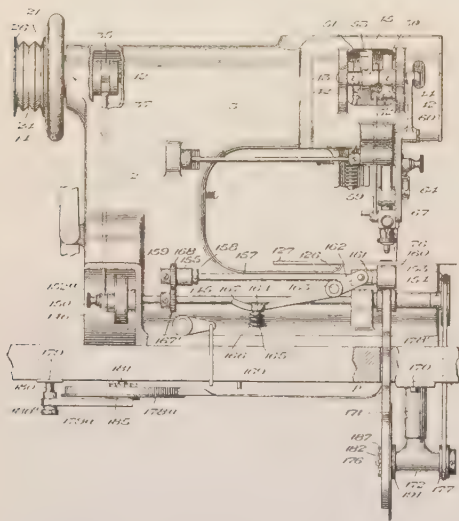
1,424,115. ROPE LADDER CONSTRUCTION. RICHARD D. NILEON, Bell, Pa. Filed June 24, 1921. Serial No. 480,062. 2 Claims. (Cl. 228—40.)



1. A rope ladder construction comprising a ladder rung having its ends bent at right angles from the main portion of the rung, the portion of the rung at which the bend is formed, being provided with a V-shaped notch forming a retaining tongue, one corner of the notch being equipped

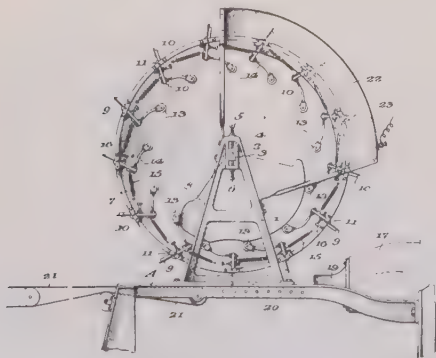
with a circular recess, the rope being provided with a single loop and slipped over the said tongue before the bend is formed, a wedging member also formed on the bent portion, the said wedging member binding the said rope in said recess and in the space between the retaining tongue and the recess when the said bend is formed.

1,424,116. PAPER-FEEDING MECHANISM. DONALD NOBLE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Continuation in part of application Serial No. 232,744, filed May 6, 1918. This application filed Feb. 12, 1919. Serial No. 276,609. 4 Claims. (Cl. 242—55.)



4. In a perforating machine, in combination, a supporting bench, a machine frame mounted thereon and carrying a perforating tool and a slotted work-support cooperating therewith, and a pair of paper-feeding rolls beneath said work-support, a paper-receiving reel disposed beneath the supporting bench with its axis in substantial parallelism with those of said feeding rolls, a driving connection between said reel and feeding rolls, and a paper supply reel mounted beneath said supporting bench and rotatable upon a substantially vertical axis, means being provided whereby a strip of paper is led from the supply reel through said bench and the slots of said work-support to the feed-rolls and thence through the bench to the receiving reel.

1,424,117. AUTOMATIC BUTTER-CUTTING MACHINE. ISAAC C. POPPER, New York, N. Y. Filed Apr. 23, 1921. Serial No. 463,851. 21 Claims. (Cl. 31—65.)



1. An automatic butter-cutting machine including a rotatable wheel or cutter-head, knives pivotally connected

therewith which successively come into the path of the butter, means for holding a knife in fixed relation to the wheel or cutter-head during the entire operation of cutting, and means for feeding the butter against the intermittently fixed knife, whereby the wheel or cutter-head is revolved, and the butter is cut into lengths.

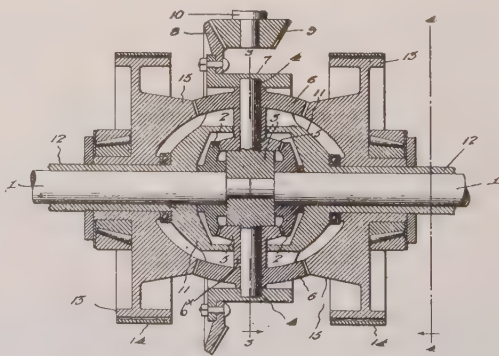
4. An automatic butter cutting machine including an automatic feed for the material to be cut, and a wheel or cutter-head carrying pivotally mounted knives which are intermittently fixed and which come in the path of the butter, whereby the wheel is revolved, and the butter is automatically cut into lengths, and name-plates secured to the periphery of the wheel or cutter-head between the knives for imprinting the butter.

8. The combination with a table having rollers and conveyors thereon, a former, a former-head, and means for feeding the material into, and discharging it from, the former-head upon the rollers, of a rotatable wheel or cutter-head carrying pivoted cutters, and means connected with each cutter for holding said cutters in fixed relation successively in the path of the fed material whereby the wheel is turned and the material is cut into lengths.

12. In an automatic butter cutting machine, a rotatable wheel carrying fixed name-plates on its periphery and knives, the latter pivotally supported, and means for controlling the position of the knife-holders, during the functioning of the knife.

16. Means for shaping and cutting plastic material including a rotatable device presenting cutting means in the path of the oncoming material and following cutting means successively to sever the fed plastic material, and means for holding the cutters rigidly during the cutting operation, thus providing an abutment in position to receive the impact of the fed material, whereby the rotation of the device is effected.

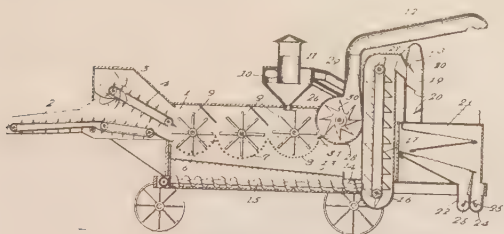
1,424,118. EQUALIZING AND STEERING GEARING FOR MOTOR VEHICLES. JACOB B. RAMER, Chambersburg, Pa. Filed May 24, 1921. Serial No. 472,180. 1 Claim. (Cl. 180—17.)



Equalizing and steering gearing for motor vehicles comprising axles arranged in alignment and opposed relation, bevel gears fast on said axles, a rotary member between said gears and loose upon the inner opposed portions of the axles, an annulus surrounding and spaced from said rotary member, shafts extending between and carried by the rotary member and the annulus, inner bevel gears on said shafts intermeshed with the gears fast on the axles, outer comparatively large bevel gears on the shafts and fixed to said inner gears, housing sections enclosing the gears on the axle and the gears intermeshed therewith and having sleeves receiving the axles, said housing sections having their inner portions arranged between the inner and outer gears on the shafts, brake wheels loosely mounted on the said sleeves and having inwardly extending annular bevel gear portions surrounding the housings

and intermeshed with the comparatively large outer gears on the shafts, and manually-controlled means complementary to the brake wheels and independently operable to retard either brake wheel.

- 1,424,119. THRASHING MACHINE. GEORGE E. RICHMOND, Enid, Okla. Filed July 28, 1919. Serial No. 313,695. 2 Claims. (Cl. 130—22.)

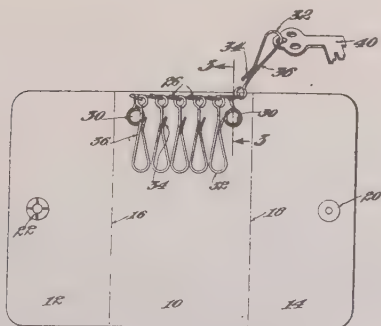


1. In a thrashing machine, the combination of a casing, a plurality of concaves arranged one in front of the other in the casing and respectively made up of transverse roos spaced apart; the rods of the rearmost concave being comparatively small in cross-section, and arranged comparatively close together, rotary beaters complementary to the concaves, cleaning means, means for conducting grain and tailings from the concaves to the cleaning means, and means for returning tailings from the cleaning means to the rearmost concave.

- 1,424,120. MAKING OF ZINC RETORTS AND OTHER REFRACTORY SHAPES. WILLIAM F. ROSSMAN, St. Louis, Mo., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a Corporation of Maine. Filed May 16, 1921. Serial No. 470,102. 4 Claims. (Cl. 106—10.)

1. A refractory material for zinc retorts and the like, composed of plastic clay, a proportion of finely pulverized silica, and a proportion of ground grog about equal to the proportion of silica mixed together in a plastic state.

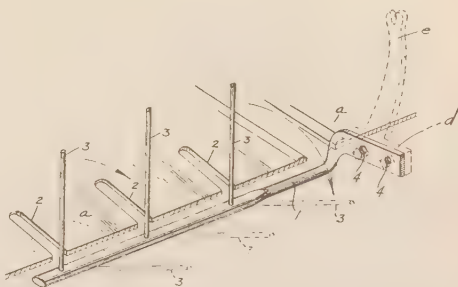
- 1,424,121. KEY HOLDER. WILLARD G. STAPLES, Newburyport, Mass., assignor to one-half to Timothy Harrington, Newburyport, Mass. Filed Apr. 25, 1921. Serial No. 464,419. 2 Claims. (Cl. 150—40.)



1. A key holder comprising a foldable cover of flexible material, a wire secured to the inner face of said cover and in engagement therewith, said wire being bent to form a series of closed loops all lying in the same plane, and a plurality of key-carrying hooks mounted one in each of said loops.

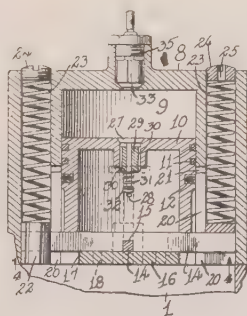
300 O. G.—48

- 1,424,122. GRAIN HOLDER FOR BINDERS. LAWRENCE H. STOWELL, Wheatland, N. Dak. Filed Nov. 10, 1920. Serial No. 423,084. 6 Claims. (Cl. 56—443.)



1. A grain holding device for a binder adapted to be disposed on the head side of the sheaf supporting grain deck thereof, which comprises spaced members extending upwardly from the surface of said deck.

- 1,424,123. AIR PUMP. WILLIS A. SWAN, Port Huron, Mich. Filed May 17, 1920. Serial No. 382,165. 4 Claims. (Cl. 230—27.)

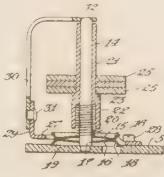


1. In an air pump, the combination of a casing, an eccentric rotatably mounted therein, a cylinder secured to the casing having a large central chamber and a series of smaller diametrically opposed chambers arranged thereabout, a hollow piston reciprocally mounted in the central chamber, a check valve in the upper end thereof, a check valve in the upper end of the cylinder, a series of arms extending from the piston through the portion of the cylinder wall between each of the smaller and the large chamber, a member engaging over the extreme end of each arm fitting the chamber, and a spring in each smaller chamber engaging the members on the said arms, the said smaller chambers providing an air inlet to the interior of the casing.

- 1,424,124. TENSION DEVICE AND YARN CLEANER. GEORGE N. TAYLOR, East Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a Corporation of Massachusetts. Filed May 23, 1921. Serial No. 471,765. 15 Claims. (Cl. 28—71.)

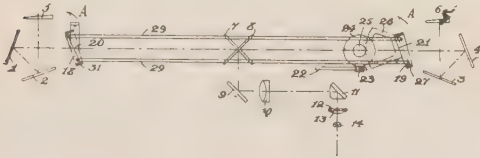
1. In a tension-device, the combination of a tension-clement adapted to bear against a running yarn to cause

resistance to its draft, gravity-operated means for applying pressure on the tension-element to cause it to act on the



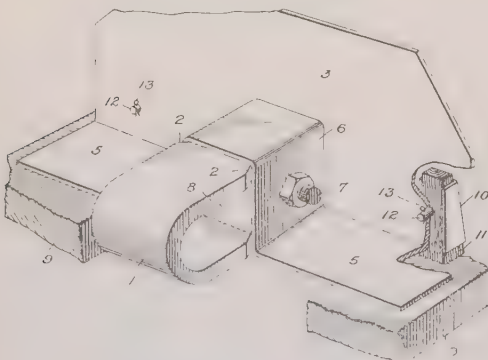
yarn, and resilient means interposed between the gravity-means and the tension-element to adapt the latter to yield without overcoming the inertia of the gravity-means.

1,424,125. RANGE-FINDING AND THE LIKE INSTRUMENT. HAROLD DENNIS TAYLOR, York, England, assignor of one-half to Alfred Taylor, York, England. Filed May 28, 1918. Serial No. 237,127. 12 Claims. (Cl. 88—2.7.)



1. A range finder comprising in combination a pair of prisms, an optical eye-piece receiving images from said prisms, means to move said prisms in unison in planes substantially at right angles to their own planes, means to indicate the amount of said movement, prismatic windows receiving light prior to refraction by said prisms.

1,424,126. FLIGHT FOR CONVEYER CHAINS. SAMUEL V. TENCH, Wilkes-Barre, Pa. Filed Feb. 4, 1920. Serial No. 356,198. 17 Claims. (Cl. 198—176.)

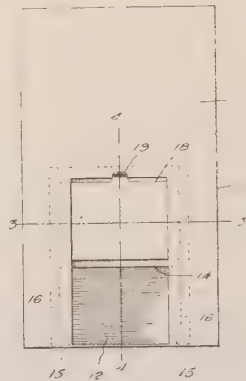


1. The combination with the link of a conveyer chain; of a flight detachably mounted directly on the link and comprising a body portion having a recess substantially conforming to the cross-sectional area of the link, to accommodate the link; a housing, including two sides and a connecting member, projecting at approximate right angles to the body portion of the flight, around the recess, the sides of the housing being substantially equal in length to the cross-sectional height of the link to embrace the opposite sides of the link, the connecting member lying in contact with one face of the link, to brace the body portion of the flight; flanges projecting at substantially

right angles to the body portion of the flight, along one edge thereof; and a fastening means passing through the sides of the housing and through the link, to secure the flight to the link.

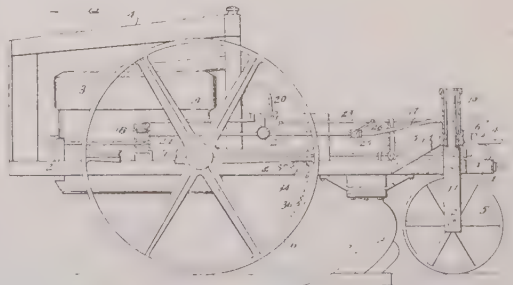
17. The combination with a link chain; of a flight detachably mounted on a link, and including a body portion extending across the link, and lying in a plane at substantial right angles to the direction of travel of the chain, side members connected with the body portion and adapted to embrace the sides of the link, the side members lying at substantial right angles to the body portion and in vertical planes substantially parallel with the direction of travel of the chain; and fastening means passing through the side members, and through the link to removably secure the flight to the link.

1,424,127. BOX. EDWARD J. THOLE, Evansville, Ind. Filed Sept. 28, 1920. Serial No. 413,315. 1 Claim. (Cl. 229—7.)



A box provided in one end with an opening, a U-shaped member secured at said opening at the inner side of the end and including a bight portion partly covering the opening and further arms extending along the sides of the opening, spacing strips secured between said ends and said U-shaped member whereby to space said arms away from the inner sides of the ends, and a plate slidable between said ends and the U-shaped member and provided with a tab serving to form a handle.

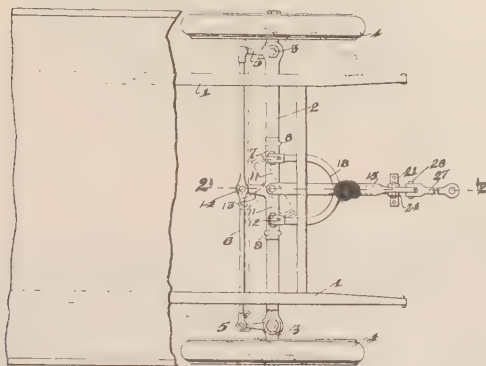
1,424,128. TRACTOR. GEORGE J. ZIEGLER, Los Angeles, Calif., assignor of one-third to Sherwin Gibbons, one-third to Ernest Stewart, and one-third to Frederick C. Beutel, all of Los Angeles, Calif. Filed Feb. 25, 1920. Serial No. 361,347. 8 Claims. (Cl. 97—30.)



1. A tractor comprising, in combination, a frame supported intermediately of its length on a wheeled axle upon which it is tiltable, the parts thereon so constructed and arranged to render the tilting facile; an agricultural im-

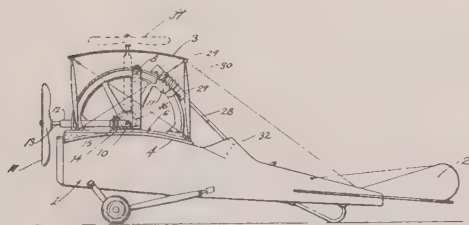
plement carried by the frame to the rear of the wheeled axle, a jacking device at the rear end of the frame for tilting the frame upon its axle, said jacking device including fluid pressure means, and means on the tractor frame for preventing swerving of said jacking device.

1,424,129. STEERING GEAR FOR TRAILERS. ABRAHAM ARBETBLATT, Los Angeles, Calif. Filed July 29, 1920. Serial No. 399,970. 4 Claims. (Cl. 280—33.5.)



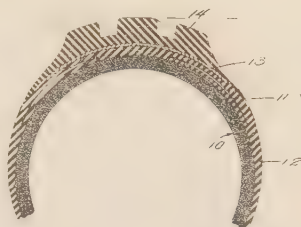
1. The combination with a trailer having steering knuckles and a rod connecting said steering knuckles, or a pin secured to the front axle of the trailer, a sleeve journaled on said pin, an arm projecting rearwardly from said sleeve, which arm is pivotally connected to said connecting rod, arms projecting laterally from said sleeve, a yoke having the rear ends of its arms pivotally connected to the arms that project laterally from the sleeve, a draw bar having its rear end pivotally connected to the pin, and a flexible connection between the forward end of said draw bar and said yoke.

1,424,130. AEROPLANE. GEORGE L. BANKS, Walnut Park, Calif. Filed June 2, 1920. Serial No. 386,002. 2 Claims. (Cl. 244-15.)



2. In an aeroplane, a wing provided with a centrally arranged opening, one side of which extends to the forward edge of said wing, an arcuate member pivotally mounted on the body of the aeroplane below said opening, means for shifting said arcuate member through a vertical plane, a propeller shaft carried by said arcuate member, means for driving said propeller shaft, a propeller on the forward end of said shaft, the length of which propeller shaft permits the propeller to occupy a position above the opening in the wing when said shaft is shifted into a vertical position, and the opening in said wing having a diameter greater than the combined length of the propeller blades.

1,424,131. PNEUMATIC-TIRE TREAD. BURGESS DARROW, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 6, 1918. Serial No. 220,753. 10 Claims. (Cl. 152—13.)

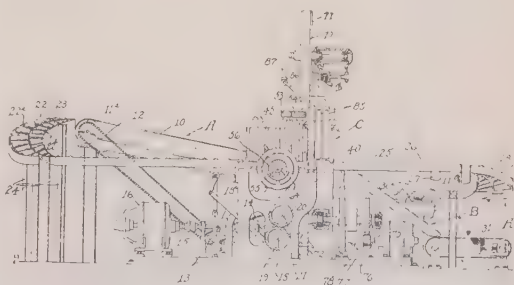


8. In a tire casing, the combination with a tire carcass, and a tread member, of an interposed cushion member having portions in sliding engagement with the tire carcass.

1,424,132. PROCESS OF COOKING GRAIN AND A PRODUCT FOR EFFECTING THE SAME. HERBERT M. GREENE, Portland, Oreg. Filed Oct. 18, 1920. Serial No. 417,625. 4 Claims. (Cl. 99—10.)

2. The process of cooking grain which consists in first mixing the grain with a substance that is quickly convertible by the application of water and heat into a viscous boiling medium and then boiling the mixture in water, thereby converting said mixture into a mucilaginous envelope for each particle, and cooking the grain.

1,424,133. CUTTING APPARATUS. NEAL M. JOHNSON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 20, 1919. Serial No. 325,050. 14 Claims. (Cl. 146—11.)

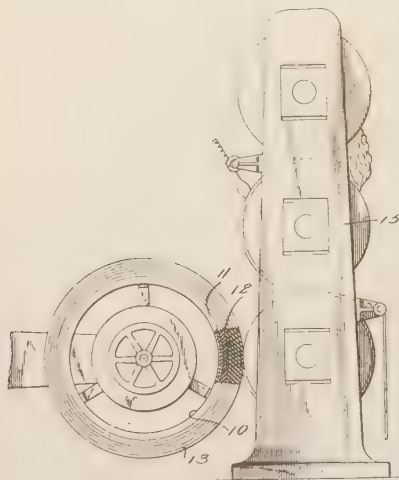


1. An apparatus of the character described comprising in combination an endless track, bundle conveying mechanism included in said track, means interposed in said track for cutting a slice of material from said bundle, and means for moving the bundle laterally of the track to gage the thickness of the slice to be cut.

1,424,134. METHOD OF BUILDING TIRES OF THE SOLID TYPE. PAUL W. LITCHFIELD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 21, 1918. Serial No. 255,113. 6 Claims. (Cl. 154—12.)

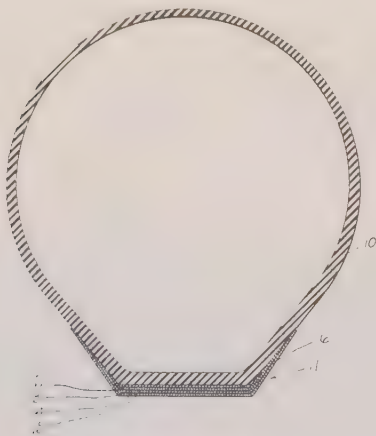
6. The method of building a solid tire comprising, filling in the space between the sides of a tire rim having

vertical side flanges with rubber compound to provide a resilient flush surface across the face of the rim, applying



ing windings of material of a different rubber compound upon said flush surface through rotation of the rim, and exerting pressure against each winding as it is applied.

- 1,424,135. INNER TUBE FOR PNEUMATIC TIRES. CLIFFORD B. ORR, Akron, Ohio, assignor to The Good-year Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 11, 1919. Serial No. 303,404. 5 Claims. (Cl. 152—13.)

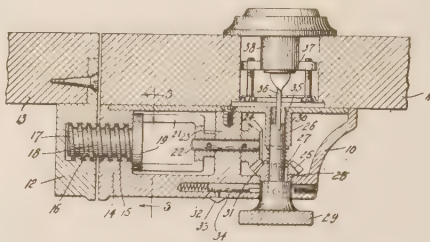


5. An inner tube for tires, having incorporated therewith a longitudinally stretchable element positioned exteriorly of the inner periphery thereof, and composed of laminated unwoven material whereby the tube is equipped to perform the function of a tire flap.

- 1,424,136. LOCK. BERNARD MORGENTHAU, New York, N. Y. Filed May 12, 1921. Serial No. 469,029. 2 Claims. (Cl. 70—46.)

1. In a lock, the combination with a casing, of a longitudinally shiftable and rotatable locking-bolt therein, the outer end of said bolt being screw-threaded and adapted to project through said casing for engagement with a screw-threaded keeper, a disk-shaped head upon the inner

end of said bolt having in diametrically opposite portions peripheral notches, a rotatable spindle in said casing extending in the longitudinal axis of said bolt, a fork-shaped member fixed to said spindle having its prongs extend-



ing parallel to the longitudinal axis of said spindle, said prongs being seated in said notches, a knob rotatably mounted in said casing disposed outside of the same, and a driving connection between said knob and said spindle.

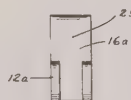
- 1,424,137. POLYGLYCEROL RESIN. LOUIS WEISBERG and RALPH S. POTTER, Grantwood, N. J., assignors to The Barrett Company, a Corporation of New Jersey. Filed Feb. 19, 1921. Serial No. 446,509. 6 Claims. (Cl. 23—24.)

1. The process which comprises heating a polyglycerol and a polybasic acid of the aromatic series until a water-resistant product results.

- 1,424,138. PURIFICATION OF SUBSTANCES BY DISTILLATION WITH A SOLVENT. GEORGE C. BAILEY, Woodcliff-on-Hudson, CHARLES W. FISCHER, Grantwood, N. J., and JOHN F. W. SCHULZE, Edgewood, Md., assignors to The Barrett Company, a Corporation of New Jersey. Filed Feb. 9, 1921. Serial No. 443,674. 8 Claims. (Cl. 260—122.)

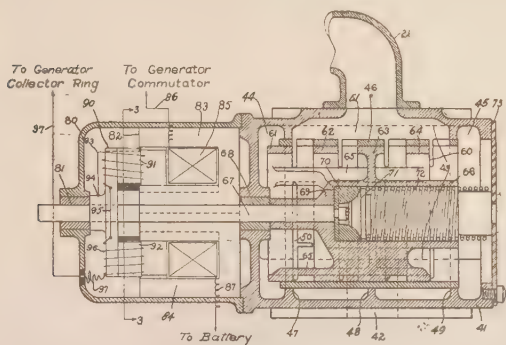
8. The process of purifying maleic acid mixed with benzoquinone, which comprises distilling said acid in the presence of xylol.

- 1,424,139. WATCH-CHAIN FASTENER. JOHN LOMAN, Bristol, Conn. Filed July 23, 1921. Serial No. 487,014. 1 Claim. (Cl. 24—3.)



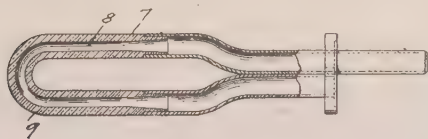
A watch chain fastener for being applied to a belt comprising a single piece of metal, one end position of said piece serving as the front wall, the other end portion thereof being divided to provide individual hooks in spaced relation and being positioned in front of said front wall, a part of said piece serving as the back wall and being spaced from the front wall by a belt receiving space, a top connecting portion connecting the upper ends of said walls and serving to close the upper end of said belt receiving space, and a bottom portion extending from the bottom end of said back wall across the lower end of said belt receiving space and merging with said individual hooks.

1,424,140. ENGINE GOVERNOR. JAMES B. REPLOGLE, Detroit, Mich., assignor to The Remy Electric Company, a Corporation of Indiana. Filed June 14, 1919. Serial No. 304,275. 3 Claims. (Cl. 137—139.)



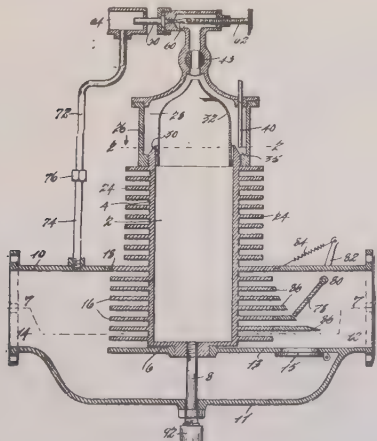
1. In a throttle governor, the combination with a port member; of a valve; electromagnetic means for controlling the position of the valve; and windings adapted to be connected with an alternating current source for reducing hysteresis in said electromagnetic means.

1,424,141. ELECTRICAL OSCILLATION GENERATOR. LEONARD F. FULLER, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed June 16, 1919. Serial No. 304,600. 7 Claims. (Cl. 250—38.)



7. In an electrical oscillation generator, an anode tip comprising a U-shaped metallic tube.

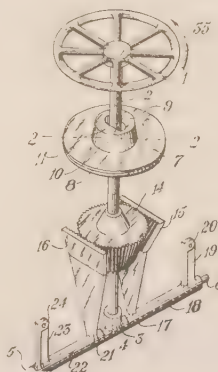
1,424,142. KEROSENE VAPORIZER. WILLIAM H. HILL, Manati, P. R. Filed Aug. 28, 1918. Serial No. 251,765. 11 Claims. (Cl. 48—107.)



1. In an apparatus of the character described, the combination with the exhaust chamber of an internal combustion motor, of means arranged in the path of the gases

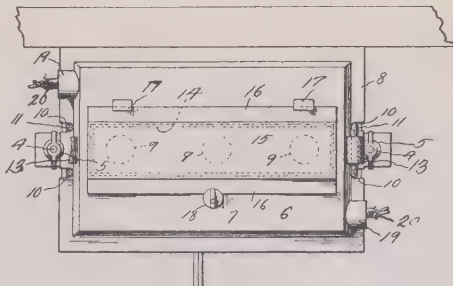
through said chamber for absorbing a portion of the heat of said gases, said heat absorbing means offering resistance to the passage of the gases, and a valve-controlled by-pass arranged to relieve excessive back pressure, said valve being yieldingly held in closed condition and arranged to open under a predetermined pressure.

1,424,143. STEERING WHEEL FOR AEROPLANES. WILLIAM C. HURST, New York, N. Y. Filed May 23, 1921, Serial No. 471,601. Renewed June 9, 1922. Serial No. 567,235. 5 Claims. (Cl. 244—29.)



1. In an aeroplane having oppositely disposed planes and a rudder, of a steering device therefor, comprising a steering shaft, means for axially rotatably mounting said steering shaft, means for bodily rotatably mounting said steering shaft, gearing operated upon axial rotation of said steering shaft and controlling said planes, a controlling element for operating said rudder, and means for mounting said controlling element on said steering shaft to operate said controlling element upon axial rotation of said steering shaft and for rendering said rudder controlling element ineffectual upon bodily rotation of said steering shaft.

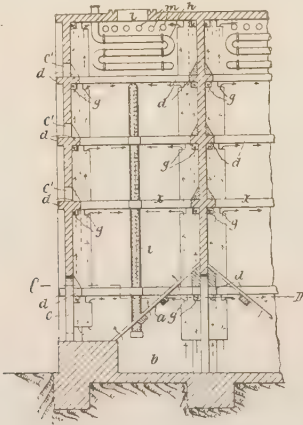
1,424,144. BATTERY COVER. BERT KUNKEL, Hart, Mich. Filed Feb. 11, 1921. Serial No. 444,225. 1 Claim. (Cl. 204—29.)



The combination with an electric battery for motor driven vehicles, said battery having aligned filling openings substantially centrally thereof, of a cover for said battery, said cover comprising a main cover and an auxiliary cover, said main cover entirely enclosing the upper side of the battery and provided with an elongated opening disposed above the battery filling openings, said auxiliary cover being detachably connected to the main cover and normally closing the elongated openings in the main cover.

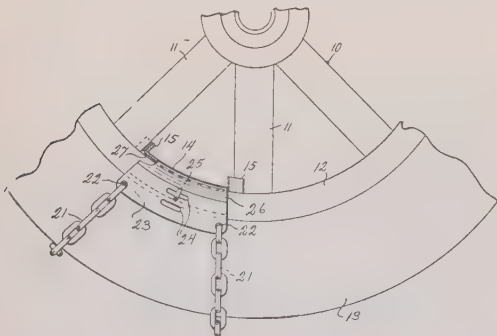
REISSUES.

15,417. APPARATUS FOR WORKING GARBAGE AND REFUSE OF TOWNS. GIUSEPPE BECCARI, Florence, Italy, assignor to Società Anonima Brevetti Beccari, Florence, Italy, an Association. Filed Feb. 1, 1922. Serial No. 533,422. Original No. 1,329,105, dated Jan. 27, 1920, Serial No. 85,567, filed Mar. 21, 1916. 11 Claims. (Cl. 71—1.)



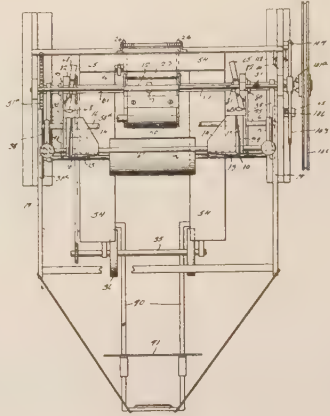
6. A hollow structure including a fermentation chamber and a vapor cooling means arranged within said structure in the course of the vapors rising from the fermenting mass therein.

15,418. NONSKID ATTACHMENT FOR VEHICLE TIRES. JAMES N. BURRIS, deceased, by Henry E. Voss, administrator, Davenport, Iowa. Filed Nov. 30, 1920. Serial No. 427,412. Original No. 1,298,001, dated Mar. 25, 1919, Serial No. 163,290, filed Apr. 19, 1917. 4 Claims. (Cl. 152—14.)



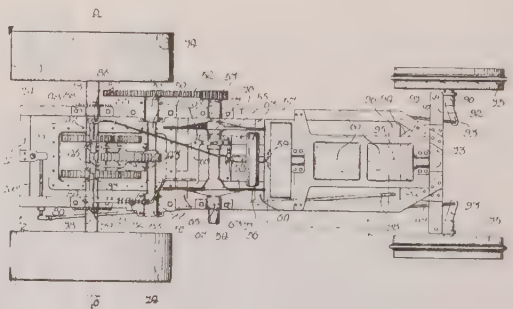
2. A non-skid device embodying a saddle to engage a wheel felly, an attaching member, one side portion of the saddle being provided with an outstanding rotatable part, said part having a cross head, the attaching member having an opening through which said part extends when the cross head is in one position, said cross head when in a second position coacting with the attaching member for detachably holding the same to the saddle, and anti-slipping means connected to said attaching member and to the saddle.

15,419. ENVELOPE-FEEDING MECHANISM. CLIFTON CHISHOLM, Cleveland, Ohio, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 4, 1920. Serial No. 356,279. Original No. 1,285,623, dated Nov. 26, 1918, Serial No. 202,094, filed Nov. 15, 1917. 62 Claims. (Cl. 271—2.)



1. In an envelope feeding device, the combination of pivoted means adapted to swing toward the ends of an envelope to engage the envelope between its flap and the adjacent face, means for moving said engaging means into and out of engaging position, and means for moving said engaging means in another direction to feed the envelope engaged.

15,420. TRACTOR. JOSEPH M. DENNING, Denver, Colo., assignor, by mesne assignments, to General Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1920. Serial No. 350,674. Original No. 1,207,875, dated Dec. 12, 1916, Serial No. 49,099, filed Sept. 4, 1915. 14 Claims. (Cl. 74—99.)



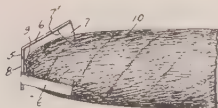
1. Propelling mechanism for tractors and the like, embodying a traction wheel, an axle upon which the wheel is loosely mounted, a driven element separate from the wheel and disposed adjacent the axis of the wheel, rigidly acting means connecting the said element with the rim of the wheel, a casing having an opening in which said driven element fits and through which it passes, a driving element fitting in and passing through another opening in said casing, and means within said casing connecting said driven and driving elements whereby the former is responsive to the movement of the latter, said means including a differential and reduction gearing between said differential and said driven element.

15,421. CREEP CHECK. LEWIS O. HENGGI, Oakmont, Pa., assignor to The P. & M. Company, Chicago, Ill., a Corporation of Illinois. Filed June 7, 1922. Serial No. 566,538. Original No. 1,167,299, dated Jan. 4, 1916, Serial No. 46,258, filed Aug. 19, 1915. Continuation in part of application Serial No. 825,244, filed Mar. 17, 1914. 20 Claims. (Cl. 238—330.)



1. An anti-creeper for rails comprising a body and inwardly extending jaws so arranged that lateral clearance is provided for applying the device transversely to a rail with the body contacting with the bottom face and with the jaws in preliminary engagement with the upper faces of the flanges of the rail, and so arranged that the device is movable in right lines transversely of the rail from its position of preliminary engagement into its operative engaging position and is thereby forced into strong gripping engagement.

15,422. SLITTING ATTACHMENT FOR CIGARS. WALTER M. JACKSON, New York, N. Y. Filed Sept. 26, 1921. Serial No. 503,458. Original No. 1,345,677, dated July 6, 1920, Serial No. 307,516, filed June 30, 1919. 2 Claims. (Cl. 131—20.)

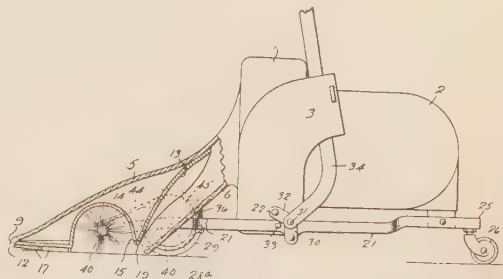


2. A sheet metal puncturing and slitting attachment for cigars consisting of a body portion having projections formed therein and extending from one face thereof, said body portion adapted to be applied against the end surface of the cigar and the projections thereon to penetrate into such end surface, said body portion also having arms to engage over and embrace the cigar end, each of said arms formed with a cutting point or projection at the extremity thereof, said cutting points or extremities bent into substantially right angular relation to the planes of the arms and adapted to penetrate the body of the cigar whereby the withdrawal of the attachment from the cigar leaves the end surface of the cigar punctured and the exterior surface of the cigar end slit longitudinally.

15,423. SUCTION CLEANER. WILLIAM V. ORR, Cleveland, Ohio. Filed Mar. 14, 1921. Serial No. 452,298. Original No. 1,346,972, dated July 20, 1920, Serial No. 142,837, filed Jan. 17, 1917. 15 Claims. (Cl. 15—8.)

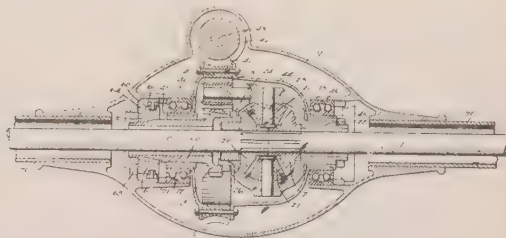
12. In a suction cleaner, in combination, a frame having at least three wheels arranged to support the same in stable equilibrium upon a horizontal surface, one of such wheels being a caster and pivoted for movement about a

vertical axis, a cleaner-casing supported by said frame and having a collecting nozzle which overhangs the forward



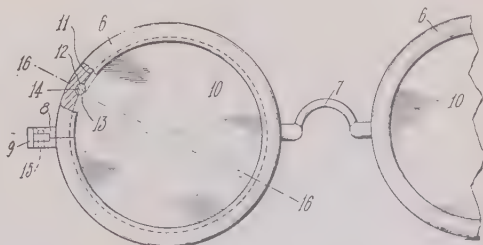
part of the frame, and means for raising and lowering said nozzle relatively to said frame.

15,424. DRIVING MECHANISM FOR MOTOR VEHICLES. CHARLES E. STARR, Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash., a Corporation of Washington. Filed May 16, 1922. Serial No. 561,515. Original No. 1,362,360, dated Dec. 14, 1920, Serial No. 293,189, filed Apr. 28, 1919. 17 Claims. (Cl. 74—99.)



11. The combination with a differential gear system, of a planetary gear system having its intermediate gears journaled on the differential casing, and a housing enclosing both gear systems for mounting the master gear of the planetary system.

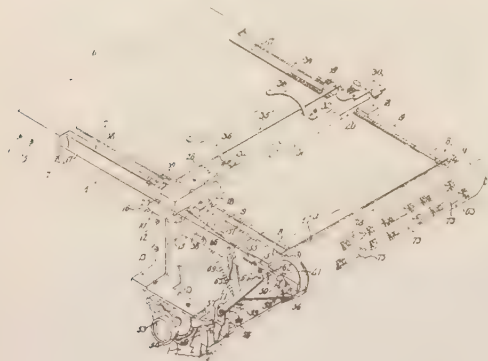
15,425. OPHTHALMIC MOUNTING. FREDERICK A. STEVENS, Providence, R. I., assignor to Stevens and Company, Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 8, 1921. Serial No. 520,985. Original No. 1,383,872, dated July 5, 1921, Serial No. 328,102, filed Oct. 3, 1919. 7 Claims. (Cl. 88—47.)



1. An ophthalmic mounting comprising a circular rim, a circular lens in the rim and ground on its surface to cor-

rect visual defects of the eye, and compressible means, intermediate the rim and the lens, for locking the lens within the rim.

15,426. TYPEWRITER. JOHN ASHLAND WHERRY, New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 15, 1921. Serial No. 461,657. Original No. 1,351,081, dated Aug. 31, 1920, Serial No. 258,146, filed Oct. 15, 1918. 41 Claims. (Cl. 197—126.)



1. The combination with a platen which is bodily movable to and from operative position, of a collating board connected at one of its ends to the platen and movable with it to assume substantially vertical and horizontal positions, said collating board being pivotally supported intermediate its ends, and means for actuating the platen when in operative position, said means being disengageable from the platen to permit the latter to be swung forwardly and upwardly to its inoperative position with the collating board face upward.

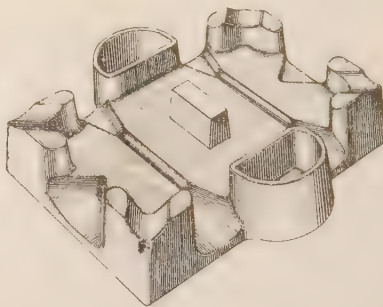
DESIGNS.

61,266. TEXTILE FABRIC. GEORGE BARCI, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,047. Term of patent $3\frac{1}{2}$ years.



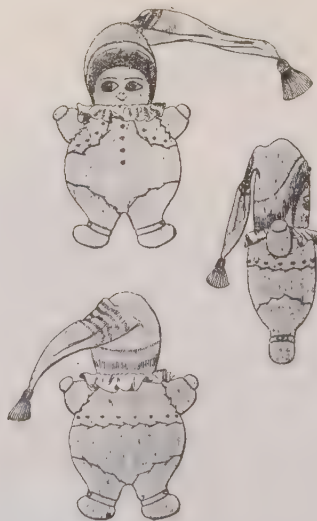
The ornamental design for a textile fabric, as shown.

61,267. ASH TRAY. WILLIAM M. CHAPMAN, Hartford, Ind. Filed Jan. 6, 1922. Serial No. 62. Term of patent 7 years.



The ornamental design for an ash tray, as shown.

61,268. STOCKING BABY DOLL. J OLIVE ENOCH, Los Angeles, Calif. Filed Nov. 23, 1921. Serial No. 517,366. Term of patent 7 years.



The ornamental design for a stocking baby doll substantially as shown.

- 61,269. TEXTILE FABRIC, WALL PAPER, WRAPPING PAPER, OR ARTICLE OF SIMILAR NATURE. EDMOND GAUDIOZ, Watford, England, assignor to Witcombe, McGeachin & Co., New York, N. Y., a Partnership. Filed Mar. 2, 1922. Serial No. 992. Term of patent 7 years.



The ornamental design for textile fabric, wall paper, wrapping paper, or article of similar nature, substantially as shown and described.

- 61,270. PAPER OR SIMILAR ARTICLE. FERNAND JAVAL, Paris, France. Filed Apr. 7, 1922. Serial No. 1,617. Term of patent 14 years.



The ornamental design for paper or similar article, substantially as shown.

- 61,271. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,039. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a textile fabric, as shown.

- 61,272. VALANCE. HAROLD H. LINDNER, New York, N. Y., assignor to Montague & Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 1, 1922. Serial No. 1,487. Term of patent 7 years.



The ornamental design for a valance, substantially as shown.

- 61,273. TOY DOLL. CATHERINE B. LOCKWOOD, Washington, D. C. Filed Apr. 14, 1922. Serial No. 1,751. Term of patent 14 years.



The ornamental design for a toy doll, as shown.

61,274. RING OR SIMILAR ARTICLE. JOSHUA W. MAYER, New York, N. Y. Filed Mar. 2, 1922. Serial No. 975. Term of patent 7 years.



The ornamental design for a ring or similar article, as shown.

61,275. SAFETY PAPER. FRANK MEYER, Lakewood, Ohio, assignor to The Forman Bassett Company, a Corporation of Ohio. Filed Feb. 23, 1921. Serial No. 447,316. Term of patent 3½ years.



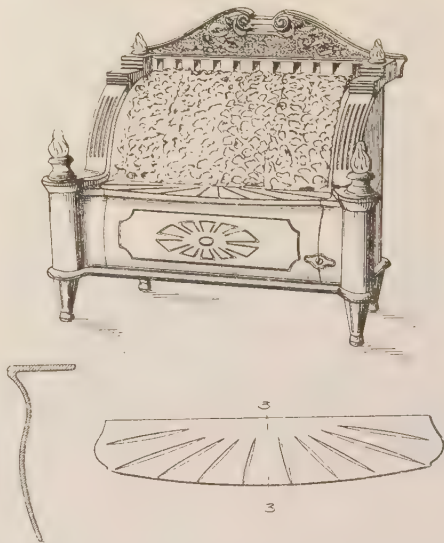
The ornamental design for safety paper, as shown.

61,276. KNITTED CAPE. JOSEPH PELT, Newark, N. J. Filed Feb. 16, 1922. Serial No. 738. Term of patent 3½ years.



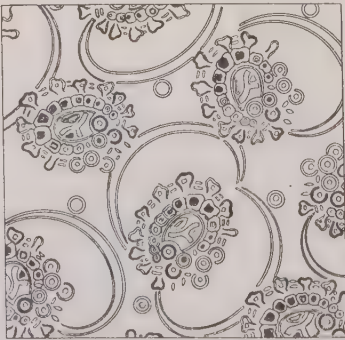
The ornamental design for a knitted cape as shown.

61,277. GAS HEATER. CLARENCE V. ROBERTS and KENNETH C. FARNSWORTH, Philadelphia, Pa., assignors to Roberts and Mander Stove Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 7, 1921. Serial No. 475,733. Term of patent 14 years.



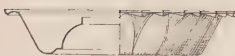
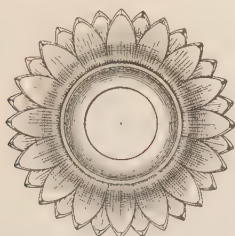
The ornamental design for a gas heater, substantially as shown.

61,278. TEXTILE FABRIC. GLADYS ROWLAND, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,040. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

61,279. HUSK FOR LIGHTING FIXTURES. JOHN WILLIAM SCHULZE, Providence, R. I., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed June 13, 1921. Serial No. 477,289. Term of patent 14 years.



The ornamental design for a husk for lighting fixtures, as shown.

61,280. FINGER RING. DAVID SHIMAN, New York, N. Y., assignor to Shiman Bros. & Co. Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1922. Serial No. 1,569. Term of patent $3\frac{1}{2}$ years.



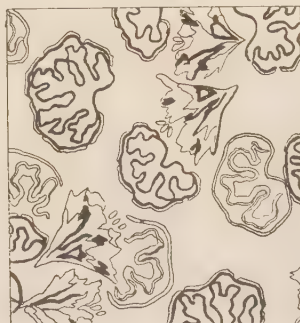
The ornamental design for a finger ring as shown.

61,281. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,041. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a textile fabric, as shown.

61,282. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,042. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a textile fabric, as shown.

61,283. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,043. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a textile fabric, as shown.

61,284. TEXTILE FABRIC. WILLIAM STRASSER, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,044. Term of patent $3\frac{1}{2}$ years.



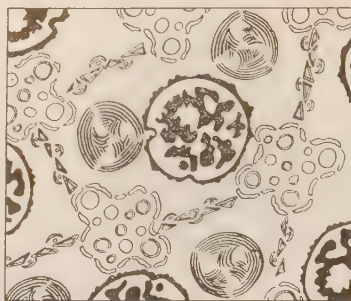
The ornamental design for a textile fabric, as shown.

61,285. TEXTILE FABRIC. VIOLA TARDY, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,045. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a textile fabric, as shown.

61,286. TEXTILE FABRIC. VIOLA TARDY, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed May 2, 1922. Serial No. 2,046. Term of patent $3\frac{1}{2}$ years.



The ornamental design for a textile fabric, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 25, 1922.

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 123,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS HUBBUCK & SON LIMITED, London, England. Filed Oct. 9, 1919. Under ten-year proviso.

HUBBUCK.

Particular description of goods.—Sulphates, Chlorides, and Acetates of Metals, Refined Tar, Perfumes, Toilet Waters, Perfume Extracts and Powders, Laundry Bluing, Laundry Soda, Borax, Starch, and Laundry Glazes.

Claims use since 1775.

Ser. No. 125,959. (CLASS 43. THREAD AND YARN.) KEMP & BEATLEY, INC., New York, N. Y. Filed Dec. 13, 1919.



Particular description of goods.—Embroidery Yarns. *Claims use since Nov. 1, 1919.*

Ser. No. 126,029. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HERZFELD-PHILLIPSON COMPANY, doing business as Milwaukee Boston Store, Milwaukee, Wis. Filed Dec. 15, 1919.



No claim is made to the words "Boston Store" apart from mark.

Particular description of goods.—Razor Strops. *Claims use since Jan. 1, 1916.*

Ser. No. 130,822. (CLASS 39. CLOTHING.) ALBERT C. FISCHER, doing business as Serviced Products Company, Chicago, Ill. Filed Apr. 8, 1920.



No claim is made to words "Look for It on All Purchases" apart from mark.

Particular description of goods.—Garters, Men's, Women's, Children's Neckties, Collars, Hose; Men's Women's, Children's Underwear, Knitted, Netted, and Woven, in One and Two Piece Garments; Ladies' and Infants' Suits, Dresses, and Coveralls; Men's Suits and Coveralls, Men's Shirts.

Claims use since Jan. 15, 1920.

Ser. No. 136,044. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SCINTILLA, Solothurn, Switzerland. Filed Aug. 12, 1920.

SCINTILLA

Trade-mark "Scintilla."

Particular description of goods.—Physical and Meteorological Instruments—viz, Anemometers, Humidity-meters, Altimeters, and Compasses, and Parts Thereof; Registering Instruments—viz, Revolving and Speed Counters and Kilometers; Recording Apparatus; Indicating and Measuring Apparatus—viz, Pressure Gauges, Ampere and Volt Meters, Oil Gauges; Automatic Switches, Weighing Machines, and Moving-Picture Machines, and Parts Thereof.

Claims use since June 19, 1917.

Ser. No. 138,036. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & Co. INC., New York, N. Y., assignor to Central Union Trust Company of New York, trustee, New York, N. Y., a Corporation of New York. Filed Oct. 7, 1920.

Molquilt

Particular description of goods.—Pile Fabrics in the Piece.

Claims use since Jan. 15, 1920.

Ser. No. 139,429. (CLASS 32. FURNITURE AND UP-HOLSTERY.) RIP VAN WINKLE WALL BED COMPANY, Oakland, Calif. Filed Nov. 9, 1920.

RIP VAN WINKLE

Particular description of goods.—Wall Beds.

Claims use since May 1, 1918.

Ser. No. 139,493. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920.

UNION

Particular description of goods.—Bagging Manufactured from Jute Fiber.

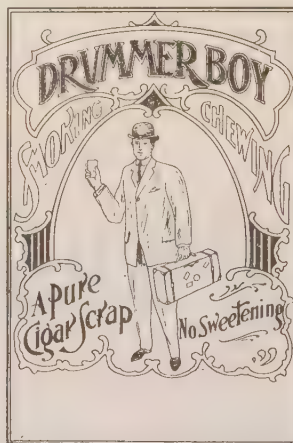
Claims use since Dec. 31, 1909.

Ser. No. 140,430. (CLASS 39. CLOTHING.) DREIFUS, TICHNER & ECKSTEIN, New York, N. Y., assignor, by mesne assignments, to Louis Tichner, Bertram Tichner, and Milton J. Tichner, copartners, trading as Tichner Bros., New York, N. Y. Filed Nov. 30, 1920.



Particular description of goods.—Hosiery.
Claims use since 1910.

Ser. No. 141,000½. (CLASS 17. TOBACCO PRODUCTS.) EXCELSIOR TOBACCO Co., St. Louis, Mo. Filed Dec. 13, 1920.



The words "Smoking," "Chewing," "A Pure Cigar Scrap," and "No Sweetening" as shown in mark are disclaimed.

Particular description of goods.—Smoking and Chewing Tobacco.

Claims use since Feb. 1, 1903.

Ser. No. 142,357. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PNEUMATIC SCALE CORPORATION, LIMITED, Norfolk Downs, Mass. Filed Jan. 17, 1921.

PNEUMATIC

Particular description of goods.—Mechanical Packaging Machinery—Namely, Machines for Feeding Carton Blanks, Machines for Sealing the Top and Bottom Flaps of Carton Blanks, Machines for Inserting Linings Into Cartons, Machines for Drying Labels on Containers, Machines for Applying Wrappers to Containers, Machines for Filling Cartons by Volume, Machines for Applying Caps to Containers, Machines for Applying Labels to Containers, Devices for Inserting Coupons Into Containers, and Devices for Applying Dates or Distinguishing Marks to Packages.

Claims use since 1904.

Ser. No. 143,095. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS DAVIS KAIN, Chicago, Ill. Filed Feb. 2, 1921.



Trade-mark consists in the representation of a seal, the seal itself being printed in blue with a representation of tapes or ribbons depending therefrom in red, and with the words "Blue Seal" printed in red upon a transverse band of white or other light contrasting color, all as indicated by the conventional lining of the accompanying drawing.

Particular description of goods.—Chemical Exterminators for Rats, Mice, and Vermin.

Claims use as early as Apr. 1, 1917.

Ser. No. 144,041½. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OTTERSON AUTO-EDUCTOR Co., Springfield, Ohio. Filed Feb. 25, 1921.

THE OTTERSON AUTO-EDUCTOR

Particular description of goods.—Vehicular Apparatus Having Means Adapted to be Lowered Into Sewer Catch Basins and the Like for Removing the Contents Thereof.

Claims use since November, 1916.

Ser. No. 144,526. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JULIAN B. JENSEN, doing business as Pacific Engineering Co., Oakland, Calif. Filed Mar. 9, 1921.

PECO

Particular description of goods.—Rotary and Centrifugal Pumps.

Claims use since Jan. 21, 1921.

Ser. No. 145,054. (CLASS 39. CLOTHING.) BANNER SHIRT Co. Inc., New York, N. Y. Filed Mar. 22, 1921.

Banner

Particular description of goods.—Dress, Negligee, Soft, and Sport Shirts.

Claims use since on or about Feb. 15, 1921.

Ser. No. 145,481. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEENDERT VERMEULEN, Waddinxveen near Gouda, Netherlands. Filed Mar. 30, 1921.



All wording excepting the word "Erica" is disclaimed apart from the mark.

Particular description of goods.—Ointment for Treatment of Burns, Scalds, and Other Wounds.

Claims use since Mar. 1, 1920.

Ser. No. 145,545. (CLASS 39. CLOTHING.) ELMER J. BLISS, Boston, Mass. Filed Apr. 1, 1921.

RESCO

Particular description of goods.—Boots and Shoes Made of Leather or Fabric or of a Combination of Leather and Fabric.

Claims use since on or about Sept. 10, 1919.

Ser. No. 145,645. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) POWER SUPPLY COMPANY, Terre Haute, Ind. Filed Apr. 2, 1921.



The words "Guarantee Satisfaction" and "Service Always" are disclaimed.

Particular description of goods.—Electrical Apparatus, Machines, and Supplies, as follows: Fuse Cut-Outs, Telephone Bells, Brush Pigtaills, Carbon Brushes, Burning-In Machines, Buzzers, Annunciator Cable, Circuit Breakers, Armored Conductors, Conduit Boxes, Cut-Out Boxes, Cut-Outs, Columbia Dry Batteries, Flash Lights, Nonarcing Inclosed Fuses, Electric Bells, Generator Motor Sets, Glass Insulators, Electric Lamps, Electric Locomotives, Electric Motors, Attachment Plugs, Rosettes, Fluted-Catch Sockets, Power and Lighting Switchboards, Battery-Charging Switches, Telephones, Trolley-Wire Supports, Electric Wire, Electric Cable, Electric Switches, Switchboards, Porcelain Insulators, and Electric Rail Bonds.

Claims use since December, 1919.

Ser. No. 146,087. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Mont-rouge near Paris, France. Filed Apr. 12, 1921.



Exclusive use of printed words appearing in drawing, with exception of the words "Lion Noir," is disclaimed apart from the mark.

Particular description of goods.—Bleaching Compounds, Powders, and Fluids; Chemical Products for Removing Rust Stains, Dyestuffs, Lye, and Chemical Preparations for Cleaning and Sterilizing Fabrics Containing Rubber.

Claims use since May, 1884.

Ser. No. 146,089. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DES PRODUITS DU LION NOIR, Mont-rouge near Paris, France. Filed Apr. 12, 1921.

LION NOIR

Particular description of goods.—Bleaching Compounds, Powders, and Fluids; Dyestuffs, Lye, Chemical Preparations for Cleaning and Sterilizing Fabrics Containing Rubber.

Claims use since May, 1884.

Ser. No. 146,433. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ELI F. GOLDBERG, Rochester, N. Y. Filed Apr. 20, 1921.

LEWGOLD

Particular description of goods.—Razors, Shears, and Files.

Claims use since Dec. 14, 1920.

Ser. No. 148,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 1, 1921.

SERICHROME

Trade-mark, "Serichrome." Applicant disclaims exclusive right to the word "Chrome" apart from the mark shown.

Particular description of goods.—Dyes, Dyestuffs, and Colors.

Claims use since Feb. 4, 1911.

Ser. No. 148,624. (CLASS 39. CLOTHING.) A. STEIN & COMPANY, Chicago, Ill. Filed June 3, 1921.

HICKORY

Trade-mark "Hickory."

Particular description of goods.—Household Aprons, Girdle Supporters, and Baby Pants.

Claims use since January, 1913.

Ser. No. 148,745. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LOS ANGELES SOAP Co., Los Angeles, Calif. Filed June 6, 1921.

WHITE CHUNK



Particular description of goods.—Laundry Soap.
Claims use since Mar. 23, 1921.

Ser. No. 149,363. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SUM-SHINE POLISH Co., Columbus, Ohio. Filed June 18, 1921.

SUM SHINE

Particular description of goods.—Metal Polish.
Claims use since May 1, 1921.

Ser. No. 149,532. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. AREND DRUG CO., Chicago, Ill. Filed June 28, 1921.

GOLDEN NERVINE

The word "Nervine" is disclaimed apart from the mark.

Particular description of goods.—Medicinal Preparation for Treatment of Nerves, Stomach, Liver, Kidneys, Blood, and Catarrhal Affections.

Claims use since 1872.

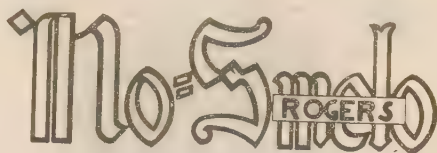
Ser. No. 150,105. (CLASS 39. CLOTHING.) GOLDSTEIN & LEVIN, Philadelphia, Pa. Filed July 7, 1921.



Particular description of goods.—Outer Skirts.
Claims use since March, 1913.

300 O. G.—49

Ser. No. 150,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES EDWIN ROGERS, doing business as Rogers Drug Store, Geary, Okla. Filed July 12, 1921.



Particular description of goods.—Foot Powder.
Claims use since Oct. 1, 1906.

Ser. No. 150,591. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL PRODUCTS COMPANY, Kent, Wash. Filed July 19, 1921.



No claim is made to the exclusive use of the words "Kent" and "Wash." apart from the mark as shown.

Particular description of goods.—Chemical Products Consisting of a Solution of Cresylic Acid, Resin, and Kerosene to be Used for the Destruction of Noxious Weeds.

Claims use since Jan. 1, 1921.

Ser. No. 150,729. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BERT CARLISLE, Santa Ana, Calif. Filed July 21, 1921.



BERT CARLISLE'S PONY BLIMP

No claim is made to the words "Pony Blimp" and illustration of toy apart from the mark.

Particular description of goods.—Toy Flying Machines.
Claims use since June 21, 1921.

Ser. No. 150,970. (CLASS 37. PAPER AND STATIONERY.) LINTON & SCOTT, New York, N. Y. Filed July 26, 1921.



The words "Finest Quality," "Crepe," and "Tissue" are disclaimed and the word "Luxury" is the subject of a separate trade-mark application by the same registrants and forms no part of present registration.

Particular description of goods.—Toilet Paper.
Claims use since Apr. 15, 1917.

Ser. No. 151,076. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BENEKE & KROPF MANUFACTURING COMPANY, Chicago, Ill. Filed July 29, 1921.



Particular description of goods.—Carburetors, Thermo-static Controls for Internal-Combustion Engines, Cooling Systems for Hydrocarbon Engines, Dash Controls for Carburetors.

Claims use since about Aug. 1, 1910.

Ser. No. 151,765. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) JAMES ORDWAY MIDDLEWORTH, doing business as Carnahan Manufacturing Company, San Diego, Calif. Filed Aug. 13, 1921.



No claim to the words "Oil Gauge" apart from the mark.

Particular description of goods.—Oil Gauges.
Claims use since July 1, 1921.

Ser. No. 151,954. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa. Filed Aug. 19, 1921.



No claim to the words "Guaranteed Basic Products" apart from mark. Drawing represented with shading.

Particular description of goods.—Liquid Soap, Soft Soap, Automobile Soap, Surgical Soap, Scrubbing Compound, Potash Cleaning Compound for General Cleaning and Scrubbing Purposes, Pine Cleanser for General Cleansing Purposes, Metal Polish, Brass Polish, Silver Polish, Dust-Layer Compounds, and Sweeping Compounds.

Claims use since Oct. 23, 1917.

Ser. No. 152,415. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.

OUR PRIDE

Particular description of goods.—Farriers' Tools—Namely, Hammers, Nippers, Pincers, Hoof Parers, Hoof Shears, Tongs, Knives, Hardies, Pritchels, and Buffers.

Claims use since 1908.

Ser. No. 152,416. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.

CRITICS'

Particular description of goods.—Farriers' and Cobblers' Tools—Namely, Hammers, Nippers, Pincers, Hoof Parers, Hoof Shears, Tongs, Knives, Hardies, Pritchels, and Buffers.

Claims use since 1912.

Ser. No. 152,418. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHAMPION TOOL COMPANY, Meadville, Pa. Filed Aug. 31, 1921.

CHAMPION

Particular description of goods.—Farriers' Tools—Namely, Hammers, Nippers, Clinch Tongs, Hoof Parers, Hoof Shears, Pincers, Knives, Hardies, Pritchels, Buffers, and Tongs; Blacksmith Tools—Namely, Anvil Tools, Tongs, Hand Hammers, Nippers, and Pincers; Blacksmiths' and Machinists' Wrenches; Hammers—Namely, Machinists', Carpenters', and Cobblers'; and Riveting Clippers, Cold Chisels, Hand Punches, and Cobblers' Tools—Namely, Hammers, Nippers, and Pincers.

Claims use since 1887.

Ser. No. 153,816. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM M. LADD, Lake City, Iowa. Filed Oct. 6, 1921.



The portrait is that of applicant.
Particular description of goods.—Dry-Cleaning Preparation for Cleaning Fabric and Like Goods.
Claims use since Mar. 1, 1921.

Ser. No. 153,875. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DEEP RIVER MILLS, INC., Randleman, N. C. Filed Oct. 8, 1921.

POLLYANNA

"Pollyanna" (trade-mark.)
Particular description of goods.—Ginghams in the Piece.
Claims use since June 20, 1921.

Ser. No. 154,387. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SMALL-WOOD STONE COMPANY, Steubenville, Ohio. Filed Oct. 20, 1921.

EMPIRE

Particular description of goods.—Pulp Stones for Wood-Pulp-Working Machines, Machinery, and Tools, and Parts Thereof.

Claims use since Jan. 1, 1906.

Ser. No. 154,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BIOZONE SYNDICATE LIMITED, London, England. Filed Oct. 24, 1921.

BIOZONE

Particular description of goods.—Salts, Used for the Following Ailments: Gout, Rheumatism, Sciatica, Rheumatoid Arthritis in Hands and Feet, Neuritis, Influenza,

Malarial Fever, Gas Poisoning, Psoriasis, Eczema, and Other Kindred Ailments; Medicinal Bath Salts, Used Externally in Connection with the Salts Which Are Taken Internally in All the Above-Mentioned Diseases Except Malarial Fever; the Bath Salts Are Also Used in Hot Fomentations in Rheumatic Cases; Nasal Douche, Used for Colds, Nasal Catarrh, and Kindred Ailments; Gargle, Used for Throat Troubles and as a Disinfectant; Cattle Salts, Used for Foot and Mouth Disease, Cattle Fever, Etc.

Claims use since Feb. 25, 1919.

Ser. No. 154,999. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) N. SOLOW, New York, N. Y., assignor to William Prym Co., Ltd., Stolberg, Rhineland, Germany. Filed Nov. 3, 1921.



Particular description of goods.—Pins of All Kinds—Namely, Solid-Head Pins, Safety Pins, Hooks and Eyes, and Snap Fasteners.

Claims use since July 1, 1921.

Ser. No. 155,286. (CLASS 39. CLOTHING.) ALEXANDER WOLFF & Co., New York, N. Y. Filed Nov. 10, 1921.



No claim to the word "Clothes" apart from mark.
Particular description of goods.—Men's and Boys' Suits.
Claims use since Aug. 29, 1921.

Ser. No. 155,446. (CLASS 17. TOBACCO PRODUCTS.) LEO L. POST, Forest Hills, N. Y. Filed Nov. 16, 1921.



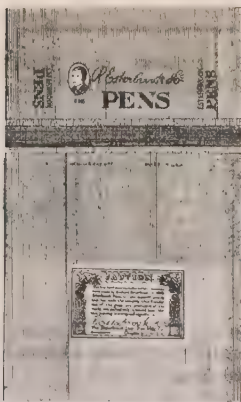
Particular description of goods.—Cigarettes.
Claims use since Sept. 1, 1921.

Ser. No. 155,649. (CLASS 38. PRINTS AND PUBLICATIONS.) WILBUR N. VAN SANT, Baltimore, Md. Filed Nov. 19, 1921.



Particular description of goods.—Monthly Publication.
Claims use since July 1, 1921.

Ser. No. 155,741. (CLASS 37. PAPER AND STATIONERY.) THE ESTERBROOK STEEL PEN MFG. CO., Camden, N. J. Filed Nov. 22, 1921.



Consisting of a rectangular red label in two parts, designed to cover the top and bottom, respectively, of a rectangular box or container, crossed on its upper portion by a black band having gilt edges. On the upper portion of the label appears the portrait of R. Esterbrook, the founder of applicant's business, and the numerals "1858," the name "Esterbrook," and certain printed matter of a descriptive character. The lower portion of the label contains a panel embodying certain printed and decorative matter, and on both the upper and lower portions of the label appears the signature "R. Esterbrook & Co." in the handwriting of R. Esterbrook. The colors and arrangement thereof substantially as described and shown in the accompanying drawing are claimed as features of the mark. No claim is made to the exclusive use, apart from the mark shown in the drawing, of the words "Pens," "Reg. U. S. Pat. Off.," "Made in U. S. A.," or the printed matter in the lower panel, except the facsimile signature "R. Esterbrook & Co." and the name "The Esterbrook Steel Pen Mfg. Co."

Particular description of goods.—Pens and Fountain Pens.

Claims use since about November, 1919.

Ser. No. 155,951. (CLASS 39. CLOTHING.) BENNETT & WEDEEN INC., New York, N. Y. Filed Nov. 26, 1921.



Particular description of goods.—Hosiery; Knitted and Textile Fabric Underwear for Men, Women, and Children; Knit Goods—Namely, Bathing Suits and Sweaters; Leather, Rubber, Fabric, and Knitted Gloves; Dress, Negligee, and Work Shirts; Neckwear—Namely, Neckties and Scarfs; Shoes Made from Leather, Rubber, Fabric, and Composite Materials; Cloaks, Suits, Dresses, Waists; Hats and Caps for Men, Women, and Children.

Claims use since about July 22, 1921.

Ser. No. 156,439. (CLASS 11. INKS AND INKING MATERIALS.) CARL A. BLACK, doing business as J. Peck & Co., Cleveland, Ohio. Filed Dec. 8, 1921.

Century

Particular description of goods.—Writing Ink and Ink Powder Known as Ink Essence.

Claims use since about the fall of 1900.

Ser. No. 156,602. (CLASS 39. CLOTHING.) SAMEK & LOBEL, New York, N. Y. Filed Dec. 12, 1921.

Salo

Particular description of goods.—Ladies' Silk Undergarments, Negligees, and Corsets.

Claims use since Nov. 1, 1916.

Ser. No. 156,731. (CLASS 39. CLOTHING.) BARNETT ARK, North Adams, Mass. Filed Dec. 15, 1921.

ARKTEX

Particular description of goods.—Coats, Overcoats, Trousers, and Knickerbockers.

Claims use since Feb. 1, 1921.

Ser. No. 150,745. (CLASS 39. CLOTHING.) KENILWORTH MANUFACTURING CO. INC., New York, N. Y. Filed Dec. 15, 1921.

PANTYBLOOMER

Particular description of goods.—A Garment of the Type Known as Knickers, Worn as an Outer Garment by Men, Women, and Children or Worn as Underwear Bloomers and Gymnasium Bloomers by Women and Children.

Claims use since Nov. 1, 1921.

Ser. No. 157,051. (CLASS 42. KNITTED, NETTED, AND TEXTILE FEBRICS. THE WILEY-BICKFORD-SWEET Co., Worcester, Mass. Filed Dec. 22, 1921.



FABRICS

No claim to the word "Fabrics" apart from the mark. The lining in drawing is for shading only.

Particular description of goods.—Knit Goods in the Piece, Made of Cotton, Silk, Wool, or Mixtures of the Same.

Claims use since June 1, 1921.

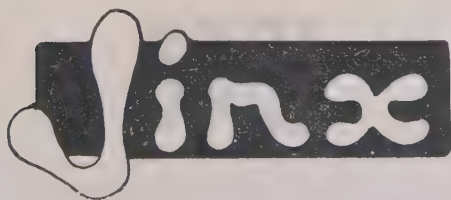
Ser. No. 157,208. (CLASS 39. CLOTHING.) ALFRED BOEHM, doing business as Lynx Knitting Mills, New York, N. Y. Filed Dec. 28, 1921.



Particular description of goods.—Hosiery, Knitted and Woven Underwear and Undersuits for Men, Women, and Children.

Claims use since about Dec. 15, 1921.

Ser. No. 157,238. (CLASS 11. INKS AND INKING MATERIALS.) SUPER SAFTEE INK CORPORATION, New York, N. Y. Filed Dec. 28, 1921.



Particular description of goods.—Writing Ink.

Claims use since about Nov. 22, 1921.

Ser. No. 157,596. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) L. D. BERGER, doing business as L. D. Berger Company, Philadelphia, Pa. Filed Jan. 7, 1922.



The words "Quality-Brand" and "Trade-Mark" are disclaimed apart from mark shown.

Particular description of goods.—Eaves-Trough Hangers, Conductor Hooks and Fasteners.

Claims use since December, 1919.

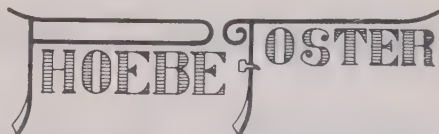
Ser. No. 157,835. (CLASS 38. PRINTS AND PUBLICATIONS.) HENRY W. GEIGER, New York, N. Y. Filed Jan. 12, 1922.



Particular description of goods.—Vocal-Music Exercises or Articles of Publication on the Voice and Hearing to be Issued from Time to Time.

Claims use since Dec. 19, 1921.

Ser. No. 157,874. (CLASS 39. CLOTHING.) AARONS & HOMES, New York, N. Y. Filed Jan. 13, 1922.



The lining in drawing is for shading only.

Particular description of goods.—Women's, Girls', and Misses' Dresses, Tailored Suits, Walking Suits, Sport Suits, Golf Suits, Riding Suits, Coats, Raincoats, Sport Coats, Skirts, and Capes.

Claims use since Dec. 1, 1921.

Ser. No. 157,985. (CLASS 39. CLOTHING.) HARRY COLLINS, INC., New York, N. Y. Filed Jan. 16, 1922.

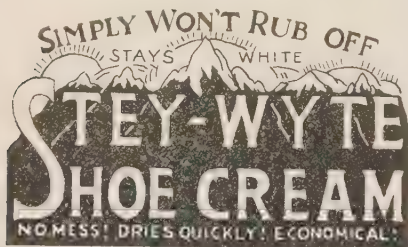


The name "Harry Collins" shown in drawing is a facsimile of autograph signature of applicant.

Particular description of goods.—Ladies' Dresses, Suits, Wraps, and Fur Pieces.

Claims use since 1917.

Ser. No. 158,016. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY SKANTZE & Co., Gottenberg, Sweden. Filed Jan. 16, 1922.



The words "Simply Won't Rub Off, Stays White, No Mess, Dries Quickly, Economical, Shoe Cream, Stay White" are disclaimed apart from the mark.

Particular description of goods.—Shoe Creams.

Claims use since July 30, 1921.

Ser. No. 158,159. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) CHARLES STEIN, New York, N. Y. Filed Jan. 19, 1922.



No claim is made to word "Umbrella" apart from the mark.

Particular description of goods.—Umbrellas and Parasols.

Claims use since Sept. 1, 1921.

Ser. No. 158,189. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LOGAN-JOHNSON, LTD., Boston, Mass. Filed Jan. 20, 1922.

AMBROSIA PUNCH

No claim to exclusive use of word "Punch" apart from the mark.

Particular description of goods.—Nonalcoholic, Maltless Fruit Sirups for Making Soft Drinks.

Claims use since 1905.

Ser. No. 158,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VERNON MANUFACTURING Co., Mount Vernon, N. Y. Filed Jan. 21, 1922.

SILVER CLOUD

Particular description of goods.—Ammonia.

Claims use since 1909.

Ser. No. 158,271. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VERNON MANUFACTURING Co., Mount Vernon, N. Y. Filed Jan. 21, 1922.

HOWLAND'S 20TH CENTURY

Particular description of goods.—Ammonia.

Claims use since 1909.

Ser. No. 158,333. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE QUEEN CITY BOTTLING COMPANY, Cincinnati, Ohio. Filed Jan. 23, 1922.

Unneeda Cola

No claim to the word "Cola" apart from the mark.

Particular description of goods.—A Nonintoxicating, Nonalcoholic, Noncereal, Maltless Fruit Beverage Sold as a Soft Drink and Sirups Used in the Preparation of Same.

Claims use since Mar. 1, 1921.

Ser. No. 158,394. (CLASS 39. CLOTHING.) CHARLES ISKOWITZ, New York, N. Y. Filed Jan. 24, 1922.



No claim to exclusive use of the word "Knit" apart from mark shown.

Particular description of goods.—Hosiery.

Claims use since Jan. 3, 1922.

Ser. No. 158,469. (CLASS 39. CLOTHING.) DAVENPORT HOSIERY MILLS, Chattanooga, Tenn. Filed Jan. 26, 1922.



Humming Bird

Particular description of goods.—Knitted, Cloth, and Woven Underwear, for Men, Ladies, and Children.
Claims use since December, 1921.

Ser. No. 158,480. (CLASS 39. CLOTHING.) THE LAMB KNIT GOODS Co., Colon, Mich. Filed Jan. 26, 1922.



Lamb Knit—

No claim is made to the word "Knit" apart from the mark.

Particular description of goods.—Men's, Women's, and Children's Sweaters, Bathing Suits, Caps, and Gloves Made from Wool and Saxony Yarn.
Claims use since 1911.

Ser. No. 158,675. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) FRANKENTHALER & FRANKENTHALER, New York, N. Y. Filed Jan. 31, 1922.



This trade-mark consists of the word "Pollyanna" arranged within a rectangular figure containing the words "Dainty Hair Ribbons, Happiness in Every Bow, Regulation Length, Price 59¢." Back of and in the center of the rectangular figure is a fanciful picture of a girl with outstretched hands and a ribbon bow of suitable length in her hair. In front of the girl a wreath of flowers is arranged, which is tied with a ribbon forming a number of loops. No claim to use of words "Dainty Hair Ribbons," "Happiness in Every Bow," "Regulation Length," "Price," and numerals "59¢."

Particular description of goods.—Hair Ribbons.
Claims use since Mar. 17, 1920.

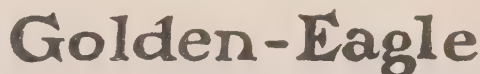
Ser. No. 158,879. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCINNES-WALKER CO., Milwaukee, Wis. Filed Feb. 4, 1922.



Shorewood

Particular description of goods.—Coffee.
Claims use since January, 1922.

Ser. No. 158,927. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDEPENDENT PRODUCTS Co., New York, N. Y. Filed Feb. 6, 1922.



Golden-Eagle

Particular description of goods.—Barley Malt.
Claims use since Sept. 1, 1921.

Ser. No. 159,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PEANUT COMPANY, Oakland, Calif. Filed Feb. 8, 1922.



Particular description of goods.—Salted Peanuts.
Claims use since 1910.

Ser. No. 159,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE BERT McDOWELL Co., Sacramento, Calif. Filed Feb. 8, 1922.



Particular description of goods.—Groceries and Grocery Specialties—viz, Vinegar, Spices, Canned Fruit, Canned Vegetables, Table Sirup, Canned Fish, Prepared Mustard, Salad Oil, and Cooking Oil.

Claims use since 1916.

Ser. No. 159,059. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. K. SMALL COMPANY, Los Angeles, Calif. Filed Feb. 8, 1922.

Sweetie

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Aug. 5, 1921.

Ser. No. 159,061. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRI-STAR NOODLE FACTORY, Chicago, Ill. Filed Feb. 8, 1922.



The picture in drawing is fanciful.
Particular description of goods.—Noodles.
Claims use since Jan. 15, 1921.

Ser. No. 159,105. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. C. RICH, INC., New York, N. Y. Filed Feb. 9, 1922.

PRESTO! Jell

Particular description of goods.—Gelatin.
Claims use since Dec. 26, 1921.

Ser. No. 159,143. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CAMEO RECORD CORPORATION, New York, N. Y. Filed Feb. 10, 1922.

Cameo

Particular description of goods.—Phonograph Records.
Claims use since Jan. 2, 1922.

Ser. No. 159,263. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. J. HAGUE & Co. INC., New York, N. Y. Filed Feb. 13, 1922.

Marvel

Particular description of goods.—Hand Sewing Needles.
Claims use since 1906.

Ser. No. 159,264. (CLASS 40. FANCY GOODS, FURNISHINGS AND NOTIONS.) A. J. HAGUE & Co. INC., New York, N. Y. Filed Feb. 13, 1922.

HOMESTEAD

Particular description of goods.—Hand Sewing Needles.
Claims use since October, 1921.

Ser. No. 159,280. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES B. NICHOLS, Memphis, Tenn. Filed Feb. 13, 1922.

Lung-Life

Particular description of goods.—Preparation for Treatment of Lung Trouble.
Claims use since Feb. 22, 1920.

Ser. No. 159,301. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD F. WHITE, doing business as The White Products Company, (a Firm,) Norfolk, Va. Filed Feb. 13, 1922.



Particular description of goods.—Preparation for the Treatment of Coughs, Colds, Bronchitis, Croup, Rheumatism, Pneumonia, Headache, Neuralgia, and Sore Joints and Muscles.

Claims use since Jan. 1, 1922.

Ser. No. 159,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCLEOD & NIESZ, Buffalo, N. Y. Filed Feb. 14, 1922.

Healiment

Particular description of goods.—Medicinal Ointment for Piles, Sunburn, Burns, Cuts, Varicose Veins, Chapped Hands, Boils, Bruises, Insect Bites, Abscesses, Running Sores, Eczema, and All Skin Irritations.

Claims use since Oct. 15, 1921.

Ser. No. 159,334. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AULD ACQUAINTANCE Co., Grand Rapids, Mich. Filed Feb. 15, 1922.

Auld Acquaintance

Particular description of goods.—Toilet and Pharmaceutical Preparations—Namely, Talcum Powder, Tooth Paste, Hair Tonic, Face Powder, Cream Lotion, Cold Cream, and Vanishing Cream.

Claims use since Jan. 11, 1922.

Ser. No. 159,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILFRID I. BOOTH, Elmira, N. Y. Filed Feb. 16, 1922.



Particular description of goods.—Candy.

Claims use since about 1901.

Ser. No. 159,659. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) KENDALL PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 21, 1922.

KENDENE

Particular description of goods.—Detergent Preparations—Namely, Soap Products.

Claims use since Jan. 26, 1922.

Ser. No. 159,799. (CLASS 39. CLOTHING.) HOLTITE MANUFACTURING Co., Baltimore, Md. Filed Feb. 25, 1922.



Particular description of goods.—Rubber Heels for Shoes.

Claims use since Oct. 4, 1921

Ser. No. 159,998. (CLASS 27. HOROLOGICAL INSTRUMENTS.) DE FRECE BERNSTEIN, New York, N. Y. Filed Mar. 1, 1922.



Exclusive use of representation of watchcase is disclaimed apart from mark.

Particular description of goods.—Watchcases and Watches.

Claims use since Jan. 12, 1922.

Ser. No. 160,018. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) INTERNATIONAL TOY COMPANY, LIMITED, Montreal, Quebec, Canada. Filed Mar. 1, 1922.

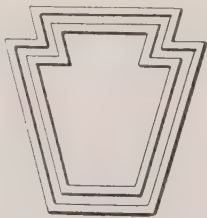
GALLOPING-GEE-GEE

"Galloping-Gee-Gee" (trade-mark).

Particular description of goods.—Velocipedes and Go-carts for Children.

Claims use since May 21, 1921.

Ser. No. 160,040. (CLASS 39. CLOTHING.) ARM-STRONG CORK COMPANY, Pittsburgh and Lancaster, Pa. Filed Mar. 2, 1922.



KEYSTONE

Particular description of goods.—Rubber Heels.

Claims use since Feb. 4, 1922.

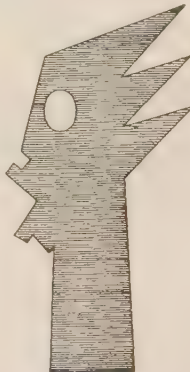
Ser. No. 160,156. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MARTIN SCHWEIBOLD and JACOB SCHWEIBOLD, Philadelphia, Pa. Filed Mar. 3, 1922.

Boldo

Particular description of goods.—Radioreceiving Apparatus.

Claims use since Jan. 16, 1922.

Ser. No. 160,167. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VOX-SCHALLPLATTEN-UND SPRECHMASCHINEN-AKTIENGESSELLSCHAFT, Berlin, Germany. Filed Mar. 3, 1922.



Particular description of goods.—Talking Machines, Dictating Machines, and Records for Talking Machines.

Claims use since Jan. 12, 1920.

Ser. No. 160,222. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY AND MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

"DUMPING SANDY"

Particular description of goods.—Sand and Marble Operated Mechanical Toys.

Claims use since July 8, 1915.

Ser. No. 160,223. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY AND MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

"BIZZY ANDY"

Particular description of goods.—Sand and Marble Operated Mechanical Toys.

Claims use since Feb. 17, 1917.

Ser. No. 160,224. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WOLVERINE SUPPLY AND MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Mar. 4, 1922.

BOWLER ANDY

Particular description of goods.—Sand and Marble Operated Mechanical Toys.

Claims use since June 28, 1917.

Ser. No. 160,232. (CLASS 39. CLOTHING.) J. W. CARTER & Co., Nashville, Tenn. Filed Mar. 6, 1922.



Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since Apr. 1, 1921.

Ser. No. 160,234. (CLASS 39. CLOTHING.) J. W. CARTER & Co., Nashville, Tenn. Filed Mar. 6, 1922.

My Boy

Trade-mark "My Boy."
Particular description of goods.—Boots and Shoes Made Wholly or in Part of Leather.
Claims use since Apr. 1, 1921.

Ser. No. 160,361. (CLASS 38. PRINTS AND PUBLICATIONS.) MUSICAL COURIER COMPANY, INC., New York, N. Y. Filed Mar. 8, 1922.

MUSICAL COURIER

Particular description of goods.—Musical Magazine Published Weekly.
Claims use since Jan. 1, 1892.

Ser. No. 160,427. (CLASS 11. INKS AND INKING MATERIALS.) THE QUEEN CITY PRINTING INK COMPANY, Cincinnati, Ohio. Filed Mar. 9, 1922. Under ten-year proviso.

QUEEN CITY

Particular description of goods.—Printing Inks.
Claims use since 1862.

Ser. No. 160,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. BURNHAM, INC., Chicago, Ill. Filed Mar. 10, 1922.

glossiwave

Particular description of goods.—Brilliantine.
Claims use since 1914.

Sr. No. 160,531. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & Co., New York, N. Y. Filed Mar. 11, 1922.



Particular description of goods.—Cotton Shirting in the Piece.
Claims use since July, 1921.

Ser. No. 160,554. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) KRANISH BROS., New York, N. Y. Filed Mar. 11, 1922.

"Silver Girl"

Trade-mark "Silver Girl."
Particular description of goods.—Woven and Narrow Fabrics—viz, Binding Tapes, Elastic Webbing, and Dress Belting.
Claims use since December, 1921.

Ser. No. 160,655. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BUCK MIX PRODUCTIONS, INC., New York, N. Y. Filed Mar. 14, 1922.



Trade-mark consists of words "Buck Mix" in connection with picture of a saddle.
Particular description of goods.—Motion-Picture Films.
Claims use since Mar. 9, 1922.

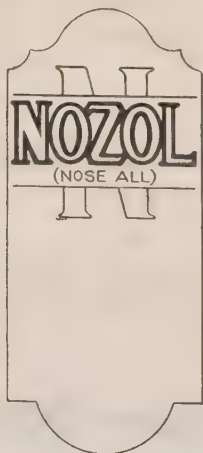
Ser. No. 160,703. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed Mar. 15, 1922.

VAPOCIDE

Particular description of goods.—Fumigating Materials, Fungicides, and Insecticides.

Claims use since December, 1921.

Ser. No. 160,710. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEXANDER KANTAR, Pittsburgh, Pa. Filed Mar. 15, 1922.



Particular description of goods.—Liquid Used for Antiseptic Purposes, as a Deodorizer, Germicide, and Lubricant for Use in the Nose.

Claims use since Jan. 1, 1922.

Ser. No. 160,759. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. T. GRANT COMPANY, New York, N. Y. Filed Mar. 16, 1922.

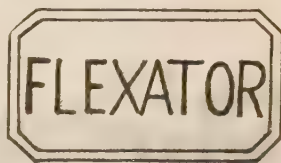


No claim to exclusive right to representation of goods apart from mark.

Particular description of goods.—Stair Carpeting and Tapestry Rugs.

Claims use since Feb. 17, 1922

Ser. No. 160,776. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Mar. 16, 1922.



Particular description of goods.—Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.

Claims use since Feb. 16, 1922.

Ser. No. 160,779. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Mar. 16, 1922.

LA FAYETTE

Particular description of goods.—Talking Machines and Phonographs.

Claims use since on or about Nov. 1, 1921.

Ser. No. 160,842. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMER L. ASSELIN, doing business as Raelin Products Company, San Francisco, Calif. Filed Mar. 18, 1922.



Particular description of goods.—Liver Tablet.

Claims use since Dec. 1, 1920.

Ser. No. 160,976. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ABSALOM SMITH, Eau Claire, Wis. Filed Mar. 20, 1922.

ABSMITHS OINTMENT

No claim to the word "Ointment" apart from the mark shown.

Particular description of goods.—Ointment for Eczema, Ulcers, Itch, Sores, Ringworm, Piles, Rashes, and All Skin Diseases.

Claims use since Feb. 17, 1922.

Ser. No. 161,015. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) TONEPEN COMPANY, New York, N. Y. Filed Mar. 21, 1922.



No claim is made to words "Trade-Mark" or to representation of phonograph needle apart from mark.

Particular description of goods.—Phonograph Needles.
Claims use since May 21, 1921.

Ser. No. 161,023. (CLASS 39. CLOTHING.) T. D. BARRY COMPANY, Brockton, Mass. Filed Mar. 22, 1922. Under ten-year proviso.

Barry

Trade-mark "Barry."

Particular description of goods.—Shoes Made Wholly or in Part of Leather.

Claims use since prior to 1895.

Ser. No. 161,033. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARPENTER-MORTON COMPANY, Boston, Mass. Filed Mar. 22, 1922.

BLEACHITE

"Bleachite," trade-mark.

Particular description of goods.—Bleaching Compounds.
Claims use since Feb. 20, 1922.

Ser. No. 161,038. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. DUNLEAVY, Cambridge, Mass. Filed Mar. 22, 1922.

PREDOL

Particular description of goods.—Hair Tonics.
Claims use since Mar. 10, 1922.

Ser. No. 161,079. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE C. WILSON, doing business as The Wilson Chemical Company, Tyrone, Pa. Filed Mar. 22, 1922.

PERSIAN GARDEN

Particular description of goods.—Face Cream.
Claims use since 1914.

Ser. No. 161,102. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN COMPANY FOR INTERNATIONAL COMMERCE, New York, N. Y. Filed Mar. 23, 1922.



No claim to word "Brand" apart from mark.
Particular description of goods.—Cotton Sheeting.
Claims use since Dec. 30, 1918.

Ser. No. 161,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN CAMPBELL & Co., New York, N. Y. Filed Mar. 23, 1922.

CAMELITE

Trade-mark "Camelite."

Particular description of goods.—Color-Stripping and Dye-Removing Compound.
Claims use since Mar. 10, 1922.

Ser. No. 161,133. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM M. KONIKOV, doing business as The Konikov Chemical Laboratories, Boston, Mass. Filed Mar. 23, 1922.



Particular description of goods.—Medicated Compound for Female Ailments.
Claims use since Jan. 20, 1922.

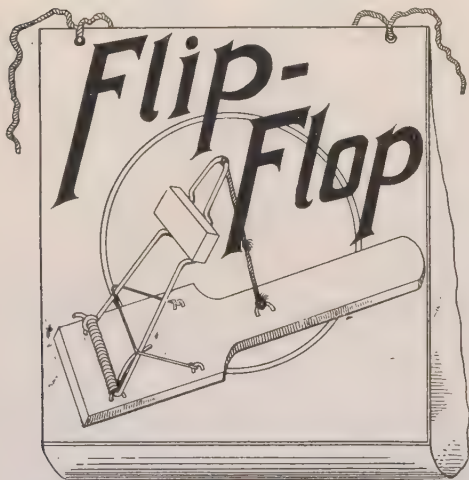
Ser. No. 161,135. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LIVERPOOL BORAX Co., LIMITED, Liverpool, England. Filed Mar. 23, 1922.

LISSOM

Particular description of goods.—Size for use in Connection with Woolen Warps and for Finishing Textile Piece Goods.

Claims use since Feb. 17, 1912.

Ser. No. 161,154. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CLARENCE R. STEWART, Spokane, Wash. Filed Mar. 23, 1922.



No claim is made to representation of a catapult and target apart from the mark shown.

Particular description of goods.—Toy Catapults and Targets.

Claims use since Mar. 16, 1922.

Ser. No. 161,166. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULIUS BERBECKER & SONS, INC., New York, N. Y. Filed Mar. 24, 1922.

WARWICK CASTLE

Particular description of goods.—Hand Sewing Needles. *Claims use* since on or about Jan. 12, 1922.

Ser. No. 161,208. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE M. SHAFFER COMPANY, Philadelphia, Pa. Filed Mar. 24, 1922.

HILARIS

Particular description of goods.—Hair Tonic. *Claims use* since on or about May 16, 1915.

Ser. No. 161,279. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY (INCORPORATED IN NEW JERSEY), Bayonne, N. J. Filed Mar. 25, 1922.

GARÇA

Particular description of goods.—Petrolatum, Petrolatum Greases, and Petrolatum Oils.

Claims use since Sept. 27, 1921.

Ser. No. 161,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED STATES DENTAL SPECIALTY Co., San Francisco, Calif. Filed Mar. 25, 1922.

LUSTRODENT

"Lustrodent."

Particular description of goods.—Tooth Paste.

Claims use since Nov. 15, 1921.

Ser. No. 161,295. (CLASS 37. PAPER AND STATIONERY.) BLAKE, McFALL COMPANY, Portland, Oreg. Filed Mar. 27, 1922.

TRY THE DRUG STORE FIRST

Particular description of goods.—Wrapping Paper. *Claims use* since Nov. 8, 1921.

Ser. No. 161,318. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. KETELS, doing business as Amber-o-latium Laboratory, Springfield, Oreg. Filed Mar. 27, 1922.

AMBER-O-LATIUM

Particular description of goods.—Ointment for Colds, Croup, Pneumonia, and Influenza.

Claims use since Aug. 20, 1921.

Ser. No. 161,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH M. ABOUSSELMAN, doing business as Youth-Ami Laboratories, New York, N. Y. Filed Mar. 28, 1922.

Youth-Ami

Particular description of goods.—Toilet Preparations—viz, Liquid Skin Peel and Hair Tonic.

Claims use since Mar. 15, 1922.

Ser. No. 161,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Mar. 28, 1922.

ORCHITRIN

Trade-mark "Orchitrin."

Particular description of goods.—Medicinal Preparation for use as an Aphrodisiac and Metabolic Stimulant.

Claims use since Mar. 11, 1922.

Ser. No. 161,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed Mar. 28, 1922.

AMYTAL

Trade-mark "Amytal."

Particular description of goods.—Medicinal Preparation in Tablet Form for Use as a Sedative and Hypnotic.

Claims use since Feb. 23, 1922.

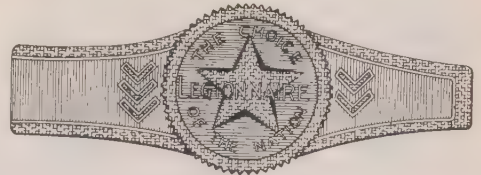
Ser. No. 161,393. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE TAPPAN STOVE COMPANY, Mansfield, Ohio. Filed Mar. 28, 1922.



Particular description of goods. Gas and Coal Ranges and Stoves.

Claims use since Mar. 3, 1922.

Ser. No. 161,435. (CLASS 17. TOBACCO PRODUCTS.) THOMAS A. HENDERSON, Merchantville, N. J. Filed Mar. 29, 1922.



Mark consists of a red band with blue circle in the middle, said band and circle being surrounded by a border of gold, said circle having a star in gold inclosed therein, and having in white letters the words "The Choice of the Nation" and "Legionnaire." At right of said circle are two service stripes in gold, and at left of said circle three service stripes in gold.

Particular description of goods.—Cigars.

Claims use since Feb. 20, 1922.

Ser. No. 161,441. (CLASS 39. CLOTHING.) MORSE & BURT CO., INC., Brooklyn, N. Y. Filed Mar. 29, 1922.



No claim to exclusive use of the mere representation of a shoe.

Particular description of goods.—Shoes of Leather, Fabric, and Combinations.

Claims use since Sept. 21, 1920.

Ser. No. 161,443. (CLASS 38. PRINTS AND PUBLICATIONS.) SARAH M. MORGAN, Belvedere, Calif. Filed Mar. 29, 1922.

MERRY MAKERS

Particular description of goods.—Recipes Which are Issued from Time to Time as Desired.

Claims use since Feb. 18, 1922.

Ser. No. 161,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROGERS BROTHERS, New York, N. Y. Filed Mar. 29, 1922.



Particular description of goods.—Face Powder, Tale Powder, Almond Lotion, Cold Cream, Vanishing Cream, Massage Cream, Dental Cream, Lip Stick, Rouge, Hair Tonic, Hair Shampoo, and Hair Dye.

Claims use since July 15, 1920.

Ser. No. 161,462. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, trading as A. C. Meyer & Co., Baltimore, Md. Filed Mar. 29, 1922. Under ten-year proviso.

Dr. John W. Bull's

Particular description of goods.—Medicinal Preparation in Dry Form—Namely, Pills Having Laxative and Tonic Properties.

Claims use since 1858.

Ser. No. 161,506. (CLASS 42, KNITTED, NETTED, AND TEXTILE FABRICS.) NEW ENGLAND COMMERCIAL CO., INC., New York, N. Y. Filed Mar. 30, 1922.



Trade-mark consists of the representation of a tropical landscape with a tiger in the foreground in connection with the word "Necco."

Particular description of goods.—Cotton Piece Goods.

Claims use since Mar. 11, 1922.

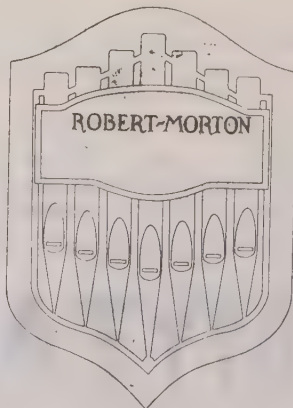
Ser. No. 161,659. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VALLEY REMEDY CO., Sullivan, Ind. Filed Apr. 1, 1922.

FLU KAPS

Particular description of goods.—Cold Capsules.

Claims use since Jan. 15, 1920.

Ser. No. 161,704. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE ROBERT-MORTON COMPANY, San Francisco, Calif. Filed Apr. 3, 1922.



Particular description of goods.—Orchestral Pipe Organs.

Claims use since May 2, 1917.

Ser. No. 161,708. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VEGA COMPANY, Boston, Mass. Filed Apr. 3, 1922.



Particular description of goods.—Banjos.
Claims use since January, 1890.

Ser. No. 161,709. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VEGA COMPANY, Boston, Mass. Filed Apr. 3, 1922.



Particular description of goods.—Banjos.
Claims use since January, 1906.

Ser. No. 161,717. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) BEAR HOPS, MALT & EXTRACT CO., Brooklyn, N. Y. Filed Apr. 4, 1922.

BEAR BRAND



No claim to the word "Brand" apart from mark.
Particular description of goods.—Malt Sirup.
Claims use since Mar. 10, 1920.

Ser. No. 161,719. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMER, FETTERLY & CO. INC., Union Hill, N. J., and New York, N. Y. Filed Apr. 4, 1922.

ENZYDYN

Particular description of goods.—Pharmaceutical Preparation Composed of Medicinal Digestive Substances for the Correction of Faulty Gastrointestinal Digestion.
Claims use since Sept. 15, 1921.

Ser. No. 161,725. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID H. FULTON & BRO., Baltimore, Md. Filed Apr. 4, 1922.

Hi-SPEED

Particular description of goods.—Laxative Tablets.
Claims use since May, 1919.

300 O. G.—50

Ser. No. 161,726. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID H. FULTON & BRO., Baltimore, Md. Filed Apr. 4, 1922.

DRECO

Particular description of goods.—Laxative Tablets.
Claims use since May, 1919.

Ser. No. 161,757. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PHILIP J. SCHLICHTMANN, doing business as The Slick Drug Co., Philadelphia, Pa. Filed Apr. 4, 1922.

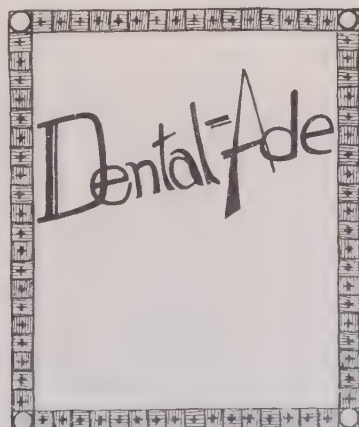
Slick-Oyl



Particular description of goods.—Preparation Used for Gargling.

Claims use since Oct. 20, 1914.

Ser. No. 161,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANCOCK-SMITHS, INCORPORATED, Baltimore, Md. Filed Apr. 5, 1922.



Particular description of goods.—Liquid Antiseptic and Mouth Wash.

Claims use since Feb. 7, 1922.

Ser. No. 161,793. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. PALMER, doing business as Floramol Chemical Co., Baltimore, Md. Filed Apr. 5, 1922.

FLORAMOL

Particular description of goods.—Antiseptic Healing Ointment for Treatment of Sores, Cuts, Burns, Scalds; Chapped Hands, Face, and Lips; Sunburn, Catarrh, Itching Piles, Eczema, Itching Skin, and Insect Bites.

Claims use since on or about Feb. 1, 1922.

Ser. No. 161,823. (CLASS 38. PRINTS AND PUBLICATIONS.) DOG WORLD PUBLISHING Co., Chicago, Ill. Filed Apr. 6, 1922.



Particular description of goods.—Monthly Publication. *Claims use* since Jan. 2, 1922.

Ser. No. 161,836. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y. Filed Apr. 6, 1922.

PARACIDE

Particular description of goods.—Insecticides. *Claims use* since Mar. 27, 1922.

Ser. No. 161,837. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOOKER ELECTROCHEMICAL COMPANY, Niagara Falls, N. Y. Filed Apr. 6, 1922.

PARADI

Particular description of goods.—Insecticides. *Claims use* since Mar. 27, 1922.

Ser. No. 161,841. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAY RITE LABORATORY, St. Louis, Mo. Filed Apr. 6, 1922.



Particular description of goods.—Face Powder and Perfumes. *Claims use* since Dec. 1, 1921.

Ser. No. 161,847. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Eukodal

Particular description of goods.—Dihydrooxycodineon-chlorhydrate.

Claims use since January, 1917.

Ser. No. 161,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Choleval

Particular description of goods.—Colloidal Silver Preparation Combined with Sodium Cholate as Protective Colloid.

Claims use since June 15, 1912.

Ser. No. 161,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Argochrom

Particular description of goods.—Methylene Blue Silver Compound.

Claims use since February, 1917.

Ser. No. 161,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Theacylon

Particular description of goods.—Acetylsalicyloyltheobromine.

Claims use since July, 1915.

Ser. No. 161,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Citobaryum

Particular description of goods.—Preparation of Barium Sulphate (Purest) for Ready Administration, Used in X-Ray Diagnosis.

Claims use since June, 1912.

Ser. No. 161,852. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
E. MERCK, Darmstadt, Germany. Filed Apr. 6, 1922.

Incarbon

Particular description of goods.—A Suspension of Animal Charcoal of the Highest Adsorptive Power Ready for Injections.

Claims use since December, 1916.

Ser. No. 161,869. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STEPHEN K. WATTS, New York, N. Y. Filed Apr. 6, 1922.

BARMANCO

Particular description of goods.—Cotton Goods, Linens, Madras, and Other Cotton Fabrics in the Piece.

Claims use since Feb. 24, 1922.

Ser. No. 161,889. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
LECAR CARBON COMPANY, Springfield, Ohio, assignor to Walter K. Jamison, Stanley B. Mathewson, Howard F. Marston, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, Springfield, Ohio, a Trust Estate. Filed Apr. 7, 1922.



Particular description of goods.—Carbonizing Compounds.

Claims use since Feb. 13, 1922.

Ser. No. 161,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
ORRSEAMIES S. RIMER, doing business as Sweetola Company, Dayton, Ohio. Filed Apr. 7, 1922.

SWEETOLA

Particular description of goods.—Powder Preparation for Use as a Body Deodorant.

Claims use since Apr. 1, 1921.

Ser. No. 161,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
SCHERING & GLATZ, INC., New York, N. Y. Filed Apr. 7, 1922.

PERALGA

Particular description of goods.—Medicinal Preparation Recommended as a Pain Alleviator.

Claims use since Mar. 1, 1922.

Ser. No. 161,927. (CLASS 39. CLOTHING.) THE A. T. LEWIS & SON DRY GOODS COMPANY, Denver, Colo. Filed Apr. 8, 1922.

FLEXION

Particular description of goods.—Leather Shoes.

Claims use since about Mar. 1, 1922.

Ser. No. 161,931. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
MILLER-FATLAND NOVELTY CO., Chicago, Ill. Filed Apr. 8, 1922.

KICK - ITY - KICK

Trade-mark, "Kick-Itty-Kick."

Particular description of goods.—Combination Inhalers, Remedy for Catarrh, Hay Fever, Colds in the Head, Headaches, and Other Ailments.

Claims use since Sept. 1, 1921.

Ser. No. 161,940. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
R. ODELL & SONS COMPANY, Newark, N. J. Filed Apr. 8, 1922.

GLOSSINE

Trade-mark. "Glossine."

Particular description of goods.—Liquid Preparation for Controlling Stubborn Hair.

Claims use since Sept. 15, 1921.

Ser. No. 161,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
REIDAR G. SEEL, New York, N. Y. Filed Apr. 8, 1922.

Somnacetin

Particular description of goods.—Medicinal Preparation for Internal Use of a Sedative Character.

Claims use since Apr. 15, 1921.

Ser. No. 161,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
GERTRUDE I. SAMPSON, doing business as Ambercrude Products Co., Philadelphia, Pa. Filed Apr. 8, 1922.



Particular description of goods.—Preparation for the Treatment of the Hair and Scalp.

Claims use since about Nov. 4, 1921.

Ser. No. 161,956. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
BEACH CHEMICAL COMPANY, St. Louis, Mo. Filed Apr. 10, 1922.



The lining of drawing indicates the color blue.

Particular description of goods.—Medicinal Preparation in Tablet Form for Relief of Colds, La Grippe, Fever, Headache, and Like Ailments.

Claims use since October, 1920.

Ser. No. 161,974. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH HENRY CALISHER, doing business as The Angelus Powder Puff Co., New York, N. Y. Filed Apr. 10, 1922.

ANGELUS

Particular description of goods.—Powder Puffs of All Descriptions.

Claims use since Feb. 1, 1922.

Ser. No. 162,000. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.)
GEORGE T. HASTINGS, doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Filed Apr. 10, 1922.



Particular description of goods.—Perfume, Face Powder, Rouge, Talcum, Lip Sticks, Camphor-Ice Sticks, Powder Compacts, Rouge Compacts, Day Cream (Vanishing), Cold Cream.

Claims use since Mar. 27, 1922.

Ser. No. 162,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE T. HASTINGS, doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Filed Apr. 10, 1922.

ALICIA

Particular description of goods.—Perfume, Face Powder, Rouge, Talcum, Lip Sticks, Camphor-Ice Sticks, Powder Compacts, Rouge Compacts, Day Cream (Vanishing), Cold Cream.

Claims use since Mar. 27, 1922.

Ser. No. 162,023. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS LEVISH, Chicago, Ill. Filed Apr. 10, 1922.

FLAPPER

Particular description of goods.—Monthly Magazine.

Claims use since Apr. 1, 1922.

Ser. No. 162,032. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MISNER MANUFACTURING CO., Detroit, Mich. Filed Apr. 10, 1922.



The picture in drawing is fanciful.

Particular description of goods.—Toilet Specialties—viz, Face Creams, Toilet Waters, Shampoo, and Hair Tonics.

Claims use since Nov. 15, 1921.

Ser. No. 162,067. (CLASS 37. PAPER AND STATIONERY.) FRED. C. STRYPE, New York, N. Y. Filed Apr. 10, 1922.



Try The Drug Store First

Trade-mark is not lined for color.

Particular description of goods.—Wrapping Paper, Writing Paper, Writing Tablets, Envelopes, Typewriter Paper, Bond Paper, Ledger Paper, and Blank Books.

Claims use since Oct. 8, 1921.

Ser. No. 162,077. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) VAN EPS-BURR CORPORATION, New York, N. Y. Filed Apr. 10, 1922.

Van Eps

Trade-mark consists of the name "Van Eps" in handwriting of Fred F. Van Eps, president of the corporation.

Particular description of goods.—Banjos.

Claims use since Oct. 6, 1921.

Ser. No. 162,094. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ARGO FABRICS CORPORATION, Philadelphia, Pa. Filed Apr. 11, 1922.

ARGO

Particular description of goods.—Knitted Fabrics—Namely, Jersey Cloth, Chinchilla, Astrakhan, Eider Down, Velour, Tweeds, Suitings, Overcoating, Dress Goods, Cloth for Hats and Caps, and Millinery and Dress Trimmings. All of the Above Being Composed in Whole or in Part of Textile Fibers—Namely, Cotton, Linen, Wool, Worsted, Silk, Artificial Silk, or Animal Hair or a Combination of Two or More of These Textile Fibers.

Claims use since Mar. 22, 1922.

Ser. No. 162,095. (CLASS 11. INKS AND INKING MATERIALS.) ALCHEMIC GOLD COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 11, 1922.

Alchemic Gold

Applicant disclaims exclusive right to the word "Gold" apart from the mark.

Particular description of goods.—Printing Ink, Ink Pigments, and Vehicles Used with Pigments for Compounding Inks.

Claims use since Apr. 1, 1922.

Ser. No. 162,120. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANZ E. LOES, New York, N. Y. Filed Apr. 11, 1922.

NEOTUSSIN

Particular description of goods.—Sirup for Cough and Catarrh.

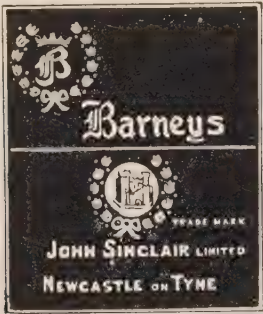
Claims use since Feb. 2, 1922.

Ser. No. 162,121. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LINGNER-WERKE AKTIENGESellschaft, Dresden, Germany. Filed Apr. 11, 1922.

Pitralon

Particular description of goods.—Medicinal Preparations for Skin Diseases, Periostitis, Infected Wounds, Insect Bites, Discharging Eczema, Seborrhœa, Herpes Tonsurans, Herpes Labialis, Sycosis Parasitaria, Septic Putrid Processes of the Mouth and Teeth, Lupus of the Face, Chronic Acne, Scabies, Impetigo, and the Like Diseases and Affections.
Claims use since Nov. 26, 1919.

Ser. No. 162,143. (CLASS 17. TOBACCO PRODUCTS.) JOHN SINCLAIR LTD., Newcastle-on-Tyne, England. Filed Apr. 11, 1922.



No claim to words "Trade-Mark" and "Newcastle on Tyne" apart from the mark.
Particular description of goods.—Smoking Tobacco and Cigarettes.
Claims use since May 31, 1905.

Ser. No. 162,406. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HESS, GOLDSMITH & CO. INC., New York, N. Y. Filed Apr. 17, 1922.



Particular description of goods.—Silk, Satin, and Crepe Piece Goods.
Claims use since Nov. 19, 1921.

Ser. No. 162,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ORIENTAL SILK PRINTING COMPANY, Haledon, N. J., and New York, N. Y. Filed Apr. 17, 1922.

CHECK - O

Particular description of goods.—Silk, Cotton and Silk and Cotton Goods in the Piece.
Claims use since Jan. 5, 1922.

Ser. No. 162,445. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) TOM A. PALMER, Akron, Ohio. Filed Apr. 17, 1922.



Particular description of goods.—Friction Matches.
Claims use since Apr. 11, 1922.

Ser. No. 162,538. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed Apr. 19, 1922.

POPLINEN

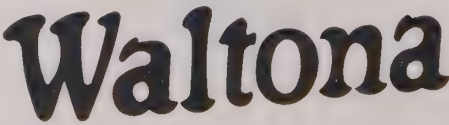
Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 31, 1922.

Ser. No. 162,539. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. ERLANGER, BLUMGART & CO., INC., New York, N. Y. Filed Apr. 19, 1922.

IRELIN

Particular description of goods.—Cotton Textiles in the Piece.
Claims use since Mar. 31, 1922.

Ser. No. 162,582. (CLASS 20. LINOLEUM AND OILED CLOTH.) RINGWALT WORKS, INC., New Brunswick, N. J. Filed Apr. 19, 1922.



Particular description of goods.—Felt-Base Floor Coverings in the Nature of Linoleum.
Claims use since Mar. 30, 1922.

Ser. No. 162,711. (CLASS 37. PAPER AND STATIONERY.) ROBERT WILLIAM SMITH, Salt Lake City, Utah. Filed Apr. 21, 1922.



The word "Stationery" is disclaimed apart from the mark Paper-Lope" (trade-mark).

Particular description of goods.—Combined Writing Paper and Envelope.

Claims use since Jan. 1, 1922.

Ser. No. 162,880. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) E. & F. KING & COMPANY, INCORPORATED, Boston, Mass. Filed Apr. 25, 1922.



No claim to the words "Bolted" and "Boston, Mass." apart from mark.

Particular description of goods.—China Clay and Plain and Colored Bases for Dressing, Whitening, and Fulling Compounds.

Claims use since about March, 1917.

Ser. No. 162,916. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THOMAS CARTER & SONS, INC., New York, N. Y. Filed Apr. 26, 1922.

The Country
Gentleman
Handkerchief

The word "Handkerchief" is disclaimed apart from mark.

Particular description of goods.—Handkerchiefs.

Claims use since April 1, 1922.

Ser. No. 162,921. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE DECOATER COMPANY, Chicago, Ill. Filed Apr. 26, 1922.

The Decoater The New Era Tooth Brush.

No claim to the words "The New Era Tooth Brush" apart from the mark.

Particular description of goods.—Toothbrushes.

Claims use since Mar. 24, 1922.

Ser. No. 163,053. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PERLMANN, SCHAL & STERN, New York, N. Y. Filed Apr. 28, 1922.

Aida

Particular description of goods.—Doilies.

Claims use since Apr. 6, 1922.

Ser. No. 163,075. (CLASS 12. CONSTRUCTION MATERIALS.) THE ATLAS PORTLAND CEMENT COMPANY, North Hampton, Pa., and New York, N. Y. Filed Apr. 29, 1922.

ATLAS

Particular description of goods.—Stucco.

Claims use since Apr. 8, 1922.

Ser. No. 163,078. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) F. E. ASHMUN COMPANY, Providence, R. I. Filed Apr. 29, 1922.

SHEIK

Particular description of goods.—Finger Rings.

Claims use since Mar. 17, 1922.

Ser. No. 163,093. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed Apr. 29, 1922.

PURITAN WHITE

The word "White" is disclaimed apart from the mark.

Particular description of goods. Writing, Printing, and Book Paper.

Claims use since July, 1900.

Ser. No. 163,151. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HUP MFG. CO. INC., New York, N. Y. Filed May 1, 1922.

HUP

Particular description of goods.—Golf-Ball Markers.
Claims use since Apr. 20, 1922.

Ser. No. 163,215. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DASCO IMPORT CO., INC., New York, N. Y. Filed May 2, 1922.

Dasco

Particular description of goods.—Smoking Pipes, Cigar Holders, Cigarette Holders, Pipe Cleaners, Cigar and Cigarette Cases, Tobacco Pouches, and Ash Trays.
Claims use since Mar. 3, 1922.

Ser. No. 163,338. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JITSUTARO KOIKE, doing business as Nippon Dry Goods Co., San Francisco, Calif. Filed May 4, 1922.

Nippontex

Particular description of goods.—Silk, Cotton, and Fiber Textiles in the Piece and Mixtures Thereof.
Claims use since Mar. 15, 1921.

Ser. No. 163,397. (CLASS 38. PRINTS AND PUBLICATIONS.) HATFIELD ELECTRIC COMPANY, Indianapolis, Ind. Filed May 5, 1922.

EXELSIOR BROADCASTER

Particular description of goods.—Periodical Publications.
Claims use since May 1, 1921.

Ser. No. 163,400. (CLASS 31. FILTERS AND REFRIGERATORS.) JOHNSON-RANDALL CO., Traverse City, Mich. Filed May 5, 1922.

BATTLESHIP

Particular description of goods.—Refrigerators and Ice Boxes.
Claims use since Jan. 1, 1922.

Ser. No. 163,592. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MODERN BEVERAGE COMPANY, Chicago, Ill. Filed May 9, 1922.

Oh! Henry

Particular description of goods.—Nonalcoholic Maltless Beverages.
Claims use since Apr. 12, 1922.

Ser. No. 163,685. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MORRIS FINKELSTEIN, doing business as Victory Malt Company, Brooklyn, N. Y. Filed May 11, 1922.

Victory Brand

The word "Brand" is disclaimed apart from the mark.
Particular description of goods.—Barley-Malt Sirup for Beverage Purposes.
Claims use since July 1, 1920.

Ser. No. 163,686. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MORRIS FINKELSTEIN, doing business as Victory Malt Company, Brooklyn, N. Y. Filed May 11, 1922.

EXELSIOR BRAND

The word "Brand" is disclaimed apart from the mark.
Particular description of goods.—Hop and Malt Sirup for Beverage Purposes.
Claims use since July 1, 1920.

Ser. No. 163,687. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MORRIS FINKELSTEIN, doing business as Victory Malt Company, Brooklyn, N. Y. Filed May 11, 1922.

National Brand

The word "Brand" is disclaimed apart from the mark.
Particular description of goods.—Barley-Malt Sirup for Beverage Purposes.

Claims use since July 1, 1920.

Ser. No. 163,799. (CLASS 17. TOBACCO PRODUCTS.) R. HASEL CIGAR Co., Richmond Hill, N. Y. Filed May 13, 1922.

La Ha-Jel

Particular description of goods.—Cigars.

Claims use since Sept. 1, 1921.

Ser. No. 163,866. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE FAULTLESS RUBBER COMPANY, Ashland, Ohio. Filed May 15, 1922.

"Wearever"

Particular description of goods.—Playing Balls Formed of Rubber and Its Compounds—Namely, Golf Balls.

Claims use since Apr. 22, 1922.

Ser. No. 163,868. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FOLD-O-LOCK STEERING WHEEL MFG. CORP., Wichita, Kans. Filed May 15, 1922.

FOLD-O-LOCK

Particular description of goods.—Steering Wheels for Motor Vehicles.

Claims use since Jan. 26, 1922.

Ser. No. 163,898. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich. Filed May 15, 1922.



Particular description of goods.—Windshield Wipers of the Squeegee Type.

Claims use since June, 1, 1921.

Ser. No. 163,947. (CLASS 17. TOBACCO PRODUCTS.) SIMON REESE, Sioux City, Iowa. Filed May 16, 1922.

LA CURRENCY

Particular description of goods.—Cigars.

Claims use since about Jan. 21, 1914.

Ser. No. 164,105. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GENERAL PHONOGRAPH CORPORATION, New York, N. Y. Filed May 19, 1922.

PETMECKY

Particular description of goods.—Needles for Talking Machines and Phonograph Needles.

Claims use since on or about 1907.

Ser. No. 164,127. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. SHACKMAN & Co., New York, N. Y. Filed May 19, 1922.

FAIRY

Particular description of goods.—Souvenir or Favor Containers Sold as a Whole with the Souvenirs or Favors Therein and Known as Jack Horner Pies.

Claims use since May 1, 1922.

Ser. No. 164,220. (CLASS 17. TOBACCO PRODUCTS.)
SAMUEL BENADERET, San Francisco, Calif. Filed May
22, 1922.



The lining on drawing indicates shading only.
Particular description of goods.—Egyptian Cigarettes.
Claims use since February, 1918.

Ser. No. 164,226. (CLASS 42. KNITTED, NETTED,
AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL &
Co. INC., New York, N. Y. Filed May 22, 1922.

Tapeston

Particular description of goods.—Pile Fabrics in the
piece.
Claims use since Mar. 23, 1922.

Ser. No. 164,238. (CLASS 19. VEHICLES, NOT IN-
CLUDING ENGINES.) DICKINSON & Co., INC., Min-
neapolis, Minn. Filed May 22, 1922.

LEDIX

Particular description of goods.—Glare Shields, Storm
Shields, and Windshields and Wind-Deflecting Wings.
Claims use since about June 1, 1921.

Ser. No. 164,254. (CLASS 45. BEVERAGES, NON-
ALCOHOLIC.) CHARLES F. MARTIN, Fairmont, W. Va.
Filed May 22, 1922.

Yep, It Gives You Pep
Drink VITOLA
The NEW Vitamine Beverage

The words "Yep, It Gives You Pep," "Drink," and
"The New Vitamine Beverage" are disclaimed apart from
mark.

Particular description of goods.—Nonalcoholic Malt-
less Beverage Sold as Soft Drink.
Claims use since Jan. 1, 1922.

Ser. No. 164,283. (CLASS 17. TOBACCO PRODUCTS.)
JULIUS WIX, doing business as J. Wix & Sons, London,
England. Filed May 22, 1922.



The words "Your Cigarettes Sir," apart from the mark,
are disclaimed.

Particular description of goods.—Cigarettes.
Claims use since Oct. 18, 1920.

Ser. No. 164,329. (CLASS 37. PAPER AND STATION-
ERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind.
Filed May 23, 1922.

TATSU

Particular description of goods.—Writing, Printing, and
Book Paper.
Claims use since October, 1908.

Ser. No. 164,330. (CLASS 37. PAPER AND STATION-
ERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind.
Filed May 23, 1922.

Waukon

Particular description of goods.—Writing, Printing, and
Book Paper.
Claims use since November, 1908.

Ser. No. 164,332. (CLASS 37. PAPER AND STATION-
ERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind.
Filed May 23, 1922.

ASSET

Particular description of goods.—Writing, Printing, and
Book Paper.
Claims use since Apr. 27, 1922.

Ser. No. 164,333. (CLASS 37. PAPER AND STATIONERY.) C. P. LESH PAPER COMPANY, Indianapolis, Ind. Filed May 23, 1922.

UTILITY

Particular description of goods.—Writing, Printing, and Book Paper.

Claims use since November, 1907.

Ser. No. 164,335. (CLASS 37. PAPER AND STATIONERY.) MACNIVEN AND CAMERON LIMITED, Edinburgh, Scotland. Filed May 23, 1922.

LASSOLETTRE

Particular description of goods.—Writing Paper, Note Paper, Envelopes, Notebooks, Stationery Cabinets, and Writing Pads.

Claims use since February, 1919.

Ser. No. 164,391. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.

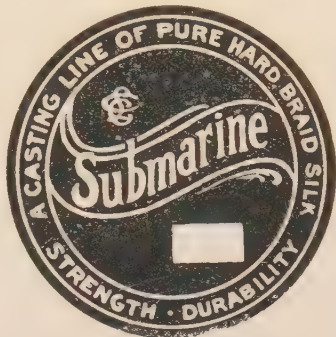


No claim to exclusive words "Extra Strong," "Very Durable," or "The Line of Luster," apart from the mark.

Particular description of goods.—Fishing Lines.

Claims use since Apr. 29, 1916.

Ser. No. 164,392. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "A Casting Line of Pure Hard Braid Silk," "Strength," or "Durability" apart from mark.

Particular description of goods.—Silk Fishing Lines.

Claims use since May 3, 1916.

Ser. No. 164,393. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words, "Standard Bait Casting Japan Silk," "Strong and Durable," "50 Yds.," "Waterproof," "No. 0000," or "Test 28 Lbs." apart from mark shown.

Particular description of goods.—Silk Fishing Lines.

Claims use since Sept. 1, 1916.

Ser. No. 164,394. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE CO. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "King of Hard Braid Silks," or "Waterproof Casting Line," apart from the mark shown.

Particular description of goods.—Silk Fishing Lines.

Claims use since May 3, 1916.

Ser. No. 164,396. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words, "First Quality Japan Silk," "For Lake or Stream," "50 Yds.," "No. 1," or "Test 18 Lbs.," apart from the mark.

Particular description of goods.—Japan-Silk Fishing Lines.

Claims use since May 3, 1916.

Ser. No. 164,397. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. INC., Cortland, N. Y. Filed May 24, 1922.



No claim to exclusive use of words "Pure Japan Silk," "Extra Hard Braid," "25 Yds.," "No. 0," or "Test 12 Lbs."

Particular description of goods.—Japan-Silk Fishing Lines.

Claims use since June 6, 1916.

Ser. No. 164,398. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CORTLAND LINE Co. INC., Cortland, N. Y. Filed May 24, 1922.



No claim made to exclusive use of words "Medium Hard Braid Casting Line," "50 Yds.," "No. A," or "Test 15 Lbs." apart from mark shown.

Particular description of goods.—Fishing Lines.

Claims use since Dec. 6, 1916.

Ser. No. 164,413. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORT DUMMER MILLS, Brattleboro, Vt. Filed May 24, 1922.

DISTAFF

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 8, 1922.

Ser. No. 164,414. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORT DUMMER MILLS, Brattleboro, Vt. Filed May 24, 1922.

NOCTURNE

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 8, 1922.

Ser. No. 164,419. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

TULIP

Particular description of goods.—Hair Nets.
Claims use since May 1, 1922.

Ser. No. 164,424. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed May 24, 1922.

The Iris

Particular description of goods.—Hair Nets.
Claims use since May 1, 1922.

Ser. No. 164,486. (CLASS 37. PAPER AND STATIONERY.) BROWN & BIGELOW, St. Paul, Minn. Filed May 25, 1922.

Junior

Particular description of goods.—Pencils.
Claims use since May 1, 1919.

Ser. No. 164,487. (CLASS 37. PAPER AND STATIONERY.) BROWN & BIGELOW, St. Paul, Minn. Filed May 25, 1922.

Aristocrat

Particular description of goods.—Pencils.
Claims use since May 1, 1921.

Ser. No. 164,646. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, Inc., New York, N. Y. Filed May 29, 1922.

As Yew

Like It

Particular description of goods.—Silk in the Piece.
Claims use since May 19, 1922.

Ser. No. 164,659. (CLASS 37. PAPER AND STATIONERY.) NOESTING PIN TICKET COMPANY, INCORPORATED, Mount Vernon, N. Y. Filed May 29, 1922.

"MILLIONS DAILY"

Particular description of goods.—Paper Clamps, Paper Clips, Thumb Tacks, Pin Tickets, and Ring Clips.
Claims use since Oct. 19, 1921.

Ser. No. 164,688. (CLASS 37. PAPER AND STATIONERY.) THE PAUL M. ADAMS Co., Baltimore, Md. Filed May 31, 1922.

The "HANDY" Line

Particular description of goods.—Writing Paper, Envelopes, Paper Napkins, Paper Blotters, Wax Paper, Loose-leaf Fillers, Typewriting Paper, Crepe-Paper Table Cloths, Legal-Cap Paper, and Toilet Paper.
Claims use since on or about Oct. 1, 1915.

Ser. No. 164,709. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed May 31, 1922.



Particular description of goods.—Cover Paper.
Claims use since Mar. 8, 1922.

Ser. No. 164,710. (CLASS 37. PAPER AND STATIONERY.) THE MARVELLUM COMPANY, Holyoke, Mass. Filed May 31, 1922.

MARVELLUM

Particular description of goods.—Cover Paper.
Claims use since Mar. 8, 1922.

Ser. No. 164,736. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa. Filed May 31, 1922.

Bordr Land

Particular description of goods.—Worsted Piece Goods, Woolen Piece Goods, Worsted and Cotton Piece Goods, Woolen and Cotton Piece Goods, and Worsted and Silk Piece Goods.

Claims use since on or about May 12, 1922.

Ser. No. 164,739. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed May 31, 1922.

Jabreen

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 164,740. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed May 31, 1922.

FEATHERDOWN

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 164,741. (CLASS 37. PAPER AND STATIONERY.) WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H. Filed May 31, 1922.

Mileen

Particular description of goods.—Toilet Paper.
Claims use since Feb. 21, 1922.

Ser. No. 164,771. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PLAZA MUSIC CO., New York, N. Y. Filed June 1, 1922.

JEWEL

Trade-mark, "Jewel."

Particular description of goods.—Player-Piano Rolls.
Claims use since May 3, 1922.

Ser. No. 164,845. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE VEGA COMPANY, Boston, Mass. Filed June 2, 1922.

VEGA

Particular description of goods.—String, Wind, and Percussion Musical Instruments, Especially Band and Orchestral Instruments, Banjos, Guitars, Harps, Mandolins, Violins, Violoncellos, Zithers, Lutes, Horns, Bugles, Bases, Clarinets, Cornets, Flutes, Fifes, Oboes, Mellophones, Piccolos, Saxophones, Trombones, Trumpets, Tambourines, Bells, Cymbals, and Drums.

Claims use since 1889.

Ser. No. 164,878. (CLASS 17. TOBACCO PRODUCTS.) FALK TOBACCO COMPANY, INCORPORATED, New York, N. Y. Filed June 3, 1922.

Radia

Trade-mark, "Radia."

Particular description of goods.—Cigarettes.
Claims use since on or about Sept. 27, 1912.

Ser. No. 164,879. (CLASS 17. TOBACCO PRODUCTS.) FALK TOBACCO COMPANY, INCORPORATED, New York, N. Y. Filed June 3, 1922.

Radio

Trade-mark, "Radio."

Particular description of goods.—Cigarettes.
Claims use since on or about June 25, 1921.

Ser. No. 164,898. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRAZAR & COMPANY, New York, N. Y. Filed June 3, 1922.



Particular description of goods.—Human-Hair Nets.
Claims use since Mar. 10, 1922.

Ser. No. 164,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO. INC., New York, N. Y. Filed June 3, 1922.

KLO-KA

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1921.

Ser. No. 164,968. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SCHNEIDER, BATTINUS & SIMON, Chicago, Ill. Filed June 3, 1922.

LADY WEAR

Particular description of goods.—Hair Nets.
Claims use since July 1, 1921.

Ser. No. 165,005. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 5, 1922.

PARICHIFFON

Particular description of goods.—Piece Goods of Silk, Cotton, Wool, and Hairs.
Claims use since Mar. 23, 1922.

Ser. No. 165,006. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 5, 1922.

PARIVOILE

Particular description of goods.—Piece Goods of Silk, Cotton, Wool, and Hairs.
Claims use since Mar. 23, 1922.

Ser. No. 165,007. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 5, 1922.

PARICRÊPE

Particular description of goods.—Piece Goods of Silk, Cotton, Wool, and Hairs.
Claims use since Mar. 23, 1922.

Ser. No. 165,019. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOLDEN-LEONARD COMPANY, New York, N. Y. Filed June 5, 1922.

LUSTROSA

Particular description of goods.—Worsted and Woolen Textile Fabrics.
Claims use since Jan. 1, 1922.

Ser. No. 165,065. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DUFFY-MOTT COMPANY, INC., New York, N. Y. Filed June 6, 1922. Under ten-year proviso.

MOTT

Trade-mark "Mott."
Particular description of goods.—Ciders and Fruit Juices.
Claims use since about 1850.

Ser. No. 165,248. (CLASS 17. TOBACCO PRODUCTS.) JULIUS WIX, doing business as J. Wix and Sons, London, England. Filed June 9, 1922.

KENSITAS

Trade-mark "Kensitas."
Particular description of goods.—Smoking and Chewing Tobacco, Cigarettes, Cigars, and Snuff.
Claims use since Oct. 28, 1920.

Ser. No. 165,275. (CLASS 17. TOBACCO PRODUCTS.) DE NOBILI CIGAR CO., INC., Long Island City and New York, N. Y. Filed June 10, 1922.



The lines on drawing are for green and red.
Particular description of goods.—Cigars.
Claims use since Jan. 3, 1922.

Ser. No. 165,413. (CLASS 45. BEVERAGES, NONALCOHOLIC.) PITTSFIELD COCA COLA BOTTLING CORPORATION, also doing business as Mohawk Bottling Company, Pittsfield, Mass. Filed June 12, 1922.

MOHAWK

Particular description of goods.—A Nonintoxicating, Nonalcoholic, Noncereal, Maltless Beverage Consisting of Sterilized Water, Sugar, Jamaica Ginger, Caramel, and Fruit Flavors Sold as a Soft Drink and Sirups Used in the Preparation of Same.

Claims use since 1921.

S. r. No. 165,467. (CLASS 45. BEVERAGES, NONALCOHOLIC.) LUCIEN F. TURCOTTE, doing business as Coca-Cola Bottling Co., Lowell, Mass. Filed June 13, 1922.

GLORIA

Particular description of goods.—Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup for Making the Same.

Claims use since Mar. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 25, 1922.

156,974. BOOTS, SHOES, AND SLIPPERS MADE OF LEATHER, RUBBER, FABRIC, AND LEATHER AND RUBBER, LEATHER AND FABRIC, AND RUBBER AND FABRIC. ABBOTT SHOE Co., North Reading, Mass.

Filed December 12, 1921. Serial No. 156,730. PUBLISHED APRIL 18, 1922.

156,975. A MIXTURE FOR MAKING PIES, PUDDINGS, CUSTARDS, AND CAKE FILLING. ADAM INT-HOUT, Chicago, Ill.

Filed December 15, 1920. Serial No. 141,112. PUBLISHED MARCH 14, 1922.

156,976. MEN'S AND YOUNG MEN'S COATS, WAISTCOATS, TROUSERS, AND OVERCOATS. DAVID ADLER & SONS Co., Milwaukee, Wis.

Filed August 2, 1920. Serial No. 135,682. PUBLISHED APRIL 11, 1922.

156,977. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESSELLSCHAFT CILANDER, Herisau, Switzerland.

Filed November 18, 1921. Serial No. 155,540. PUBLISHED APRIL 25, 1922.

156,978. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESSELLSCHAFT CILANDER, Herisau, Switzerland.

Filed November 18, 1921. Serial No. 155,541. PUBLISHED APRIL 25, 1922.

156,979. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESSELLSCHAFT CILANDER, Herisau, Switzerland.

Filed November 18, 1921. Serial No. 155,542. PUBLISHED APRIL 25, 1922.

156,980. COTTON, LINEN, AND HALF-SILK PIECE GOODS. AKTIENGESSELLSCHAFT CILANDER, Herisau, Switzerland.

Filed November 18, 1921. Serial No. 155,543. PUBLISHED APRIL 25, 1922.

156,981. WATERPROOF CLOTHING—NAMESLY, RAINCOATS, CAPES, JACKETS, OVERALLS, HATS, CAPS, AND PONCHOS. ALLIGATOR OIL CLOTHING COMPANY, St. Louis, Mo.

Filed August 15, 1921. Serial No. 151,778. PUBLISHED APRIL 25, 1922.

156,982. MAYONNAISE. BENJAMIN ALPERIN, Red Bank, N. J.

Filed July 29, 1921. Serial No. 151,073. PUBLISHED FEBRUARY 14, 1922.

156,983. MEN'S AND BOYS' CAPS AND HATS. AM-BASSADOR CAP Co., New York, N. Y.

Filed April 30, 1921. Serial No. 147,001. PUBLISHED APRIL 11, 1922.

156,984. DUSTLESS CRAYONS. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.

Filed November 29, 1921. Serial No. 156,044. PUBLISHED APRIL 25, 1922.

156,985. NAVAL AND ARMY UNIFORMS AND HATS; MEN'S SUITS, HATS, AND DUCK PANTS, AND RAINCOATS FOR MEN, WOMEN, AND CHILDREN. AMERICAN NAVAL UNIFORM Co., Hyde Park, Mass.

Filed September 8, 1921. Serial No. 152,692. PUBLISHED APRIL 11, 1922.

156,986. RAZORS, SAFETY RAZORS, AND SAFETY-RAZOR BLADES. AMERICAN SAFETY RAZOR CORPORATION, New York and Brooklyn, N. Y.

Filed December 16, 1921. Serial No. 156,815. PUBLISHED APRIL 25, 1922.

156,987. SPOOL COTTON, SEWING COTTON, THREAD, AND COTTON YARN. THE AMERICAN THREAD COMPANY, Jersey City, N. J.

Filed July 15, 1921. Serial No. 150,392. PUBLISHED JANUARY 31, 1922.

156,988. ELECTRIC-CURRENT DETECTOR. THE AM-O-METER COMPANY INC., Smithville, Tex.

Filed June 25, 1921. Serial No. 149,622. PUBLISHED APRIL 25, 1922.

156,989. SHOES MADE OF LEATHER, FABRIC, OR RUBBER FOR WOMEN. D. ARMSTRONG & Co., INC., Rochester, N. Y.

Filed November 4, 1921. Serial No. 155,006. PUBLISHED APRIL 4, 1922.

156,990. PIPE VISES AND STOCKS AND DIES FOR PIPE THREADING. THE ARMSTRONG MANUFACTURING Co., Bridgeport, Conn.

Filed August 23, 1921. Serial No. 152,059. PUBLISHED APRIL 25, 1922.

156,991. TIES AND SCARFS. LOUIS AUERBACH, New York, N. Y.

Filed August 31, 1921. Serial No. 152,407. PUBLISHED APRIL 18, 1922.

156,992. TIES AND SCARFS. LOUIS AUERBACH, New York, N. Y.

Filed August 31, 1921. Serial No. 152,408. PUBLISHED APRIL 18, 1922.

156,993. AUTOMOBILE TIRES AND TUBES OF RUBBER AND A COMBINATION OF FABRIC AND RUBBER. AUSTIN, NICHOLS & Co. Inc., Richmond, Va.

Filed October 8, 1921. Serial No. 153,865. PUBLISHED DECEMBER 27, 1921.

156,994. TEN POUND CAKES OF SWEET-CHOCOLATE COATINGS. WALTER BAKER & COMPANY, LTD., Boston, Mass.

Filed June 26, 1920. Serial No. 134,232. PUBLISHED JUNE 14, 1921.

156,995. CANVAS TENTS AND CANVAS COVERS USED FOR COVERING MERCHANDISE, TRUCKS, AND HORSES AND SIMILAR PURPOSES. BARNETT CANVAS GOODS & BAG Co. INC., Philadelphia, Pa.

Filed October 3, 1921. Serial No. 153,640. PUBLISHED JANUARY 31, 1922.

156,996. VENDING MACHINES. THE BARR COMPANY, Chillicothe, Ohio.

Filed September 22, 1921. Serial No. 153,198. PUBLISHED APRIL 25, 1922.

156,997. VAULT LOCKERS FOR THE STORAGE OF VALUABLES, VAULT CHESTS, SAFETY-DEPOSIT BOXES, SAFES, AND COIN LOCKERS. THE BARSHAL COMPANY, Cleveland, Ohio.

Filed March 7, 1921. Serial No. 144,377. PUBLISHED APRIL 25, 1922.

156,998. MOCCASINS. G. H. BASS & COMPANY, Wilton, Me.

Filed March 28, 1921. Serial No. 145,308. PUBLISHED AUGUST 23, 1921.

- 156,999. OLIVE OIL. BAY BEE OIL Co., New York, N. Y.
Filed November 26, 1920. Serial No. 140,160. PUBLISHED APRIL 4, 1922.
- 157,000. BLANKETS OF DOUBLE THICKNESS. BEACON MANUFACTURING COMPANY, Providence, R. I.
Filed March 1, 1921. Serial No. 144,173. PUBLISHED APRIL 25, 1922.
- 157,001. DOLLS. GEO. F. BERKANDER, Providence, R. I.
Filed January 6, 1921. Serial No. 141,894. PUBLISHED AUGUST 30, 1921.
- 157,002. HOSIERY. REUBEN BERMAN, New York, N. Y.
Filed September 3, 1921. Serial No. 152,533. PUBLISHED MARCH 28, 1922.
- 157,003. SHEET STEEL. BETHLEHEM STEEL COMPANY, Bethlehem, Pa.
Filed May 25, 1921. Serial No. 148,195. PUBLISHED OCTOBER 25, 1921.
- 157,004. WOMEN'S AND CHILDREN'S UNDERWEAR, MADE OF TEXTILE FABRICS. CHILDREN'S DRESSES, AND WOMEN'S SHIRT WAISTS OR BLOUSES. BIRKENFELD, STRAUSS & Co., New York, N. Y.
Filed May 13, 1921. Serial No. 147,652. PUBLISHED MARCH 28, 1922.
- 157,005. KNIT UNDERWEAR OF WOOL, COTTON, SILK, AND MIXTURES THEREOF FOR WOMEN AND CHILDREN. BLUE STAR KNITTING Co., Milwaukee, Wis.
Filed August 27, 1921. Serial No. 152,231. PUBLISHED APRIL 18, 1922.
- 157,006. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,952. PUBLISHED APRIL 18, 1922.
- 157,007. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,953. PUBLISHED APRIL 18, 1922.
- 157,008. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,954. PUBLISHED APRIL 18, 1922.
- 157,009. HATS FOR MEN. BONAR-PHELPS COMPANY, New York, N. Y.
Filed July 26, 1921. Serial No. 150,956. PUBLISHED APRIL 18, 1922.
- 157,010. CUT GLASS. GEORGE L. BORDEN, Trenton, N. J.
Filed November 23, 1921. Serial No. 155,801. PUBLISHED JANUARY 31, 1922.
- 157,011. ARTIFICIAL-SILK THREADS. THE BRAINERD & ARMSTRONG COMPANY, New London, Conn.
Filed February 16, 1921. Serial No. 143,634. PUBLISHED FEBRUARY 28, 1922.
- 157,012. SHOES FOR MEN, WOMEN, AND CHILDREN, MADE OF LEATHER AND OF FABRIC AND OF A COMBINATION THEREOF. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed August 29, 1921. Serial No. 152,310. PUBLISHED APRIL 4, 1922.
- 157,013. MEN'S SHOES MADE OF LEATHER. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed August 29, 1921. Serial No. 152,311. PUBLISHED APRIL 4, 1922.
- 157,014. SHOES MADE OF LEATHER AND LEATHER AND CLOTH. BROWN SHOE COMPANY, St. Louis, Mo.
Filed January 13, 1922. Serial No. 157,880. PUBLISHED APRIL 18, 1922.
- 157,015. GARMENT TO BE WORN BOTH AS A SLEEPING ROBE AND LOUNGING ROBE. BROWNSTEIN-LOUIS Co., Los Angeles, Calif.
Filed September 3, 1921. Serial No. 152,534. PUBLISHED MARCH 28, 1922.
- 157,016. BEARINGS AND BUSHINGS. THE BUCKEYE BRASS AND MANUFACTURING COMPANY, Cleveland, Ohio.
Filed December 22, 1921. Serial No. 157,018. PUBLISHED APRIL 25, 1922.
- 157,017. CHOCOLATE-COVERED CANDIES. BUHR AND SMITH, Cincinnati, Ohio.
Filed December 12, 1921. Serial No. 156,564. PUBLISHED APRIL 18, 1922.
- 157,018. HOSIERY. BURSON KNITTING COMPANY, Rockford, Ill.
Filed March 5, 1921. Serial No. 144,311. PUBLISHED MARCH 28, 1922.
- 157,019. CONDENSED AND EVAPORATED MILK. THE BURT OLNEY CANNING COMPANY, Oneida, N. Y., assignor to New York Cannery Inc., Rochester, N. Y., a Corporation of New York.
Filed December 9, 1918. Serial No. 114,553. PUBLISHED APRIL 4, 1922.
- 157,020. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. FERGUS A. BUTLER, New York, N. Y.
Filed December 21, 1921. Serial No. 156,982. PUBLISHED APRIL 11, 1922.
- 157,021. CERTAIN ARTICLES OF CLOTHING. J. P. CAREY & Co., Inc., New York, N. Y.
Filed December 22, 1920. Serial No. 141,413. PUBLISHED APRIL 25, 1922.
- 157,022. LADIES' KIMONOS, HOUSE DRESSES, HOUSE APRONS, BUNGALOW APRONS; MEN'S, WOMEN'S, AND CHILDREN'S BATH ROBES. CARO & COMPANY INC., New York, N. Y.
Filed August 26, 1921. Serial No. 152,201. PUBLISHED APRIL 25, 1922.
- 157,023. TOOL STEELS IN BARS, BILLETS, AND SHAPES. THE CARPENTER STEEL COMPANY, Reading, Pa.
Filed July 6, 1920. Serial No. 134,570. PUBLISHED OCTOBER 25, 1921.
- 157,024. KANSAS-HARD-WHEAT CLEAR FLOUR. EDGAR O. CHALLENGER, New York, N. Y.
Filed May 9, 1919. Serial No. 118,295. PUBLISHED JUNE 14, 1921.
- 157,025. UNION SUIT, THE UPPER PART OF WHICH IS MADE OF "POROSKNIT" KNITTED FABRIC AND THE LOWER PART OF WOVEN FABRIC. CHALMERS KNITTING COMPANY, Amsterdam, N. Y.
Filed August 18, 1921. Serial No. 151,908. PUBLISHED APRIL 25, 1922.
- 157,026. PYROPHORIC IGNITERS. CHASTERN, INC., New York, N. Y.
Filed January 25, 1921. Serial No. 142,748. PUBLISHED DECEMBER 27, 1921.
- 157,027. METAL-WORKING SMALL TOOLS—NAMELY, SOCKETS, DRILL HOLDERS, DRILL CHUCKS, ARBORS, MANDRELS, TAPS, MILLS, MILLING CUTTERS, COUNTERSINKS, AND COUNTERBORES. THE CLEVELAND TWIST DRILL COMPANY, Cleveland, Ohio.
Filed December 13, 1921. Serial No. 156,619. PUBLISHED APRIL 25, 1922.
- 157,028. TENTS, AWNINGS, PAULINS, TARPAULINS, AND DETACHED WATERPROOF WAGON COVERS. CLIFTON MFG. COMPANY, Waco, Tex.
Filed June 6, 1921. Serial No. 148,717. PUBLISHED FEBRUARY 28, 1922.
- 157,029. ORDINARY LEAD PENCILS AND MAGAZINE LEAD PENCILS. ALOYSIUS J. COLEMAN, New York, N. Y.
Filed February 17, 1921. Serial No. 143,682. PUBLISHED APRIL 25, 1922.
- 157,030. LEATHER BOOTS AND SHOES. COMMONWEALTH SHOE AND LEATHER COMPANY, Boston, Mass.
Filed September 22, 1921. Serial No. 153,202. PUBLISHED APRIL 4, 1922.

- 157,031. COATS, VESTS, TROUSERS, AND OVER-COATS. COOMBS & LEVISON, New York, N. Y.
Filed February 19, 1921. Serial No. 143,805. PUBLISHED MARCH 28, 1922.
- 157,032. BRAKE LININGS. ALBERT J. CONARD, Kansas City, Mo.
Filed December 29, 1921. Serial No. 157,256. PUBLISHED APRIL 25, 1922.
- 157,033. COFFEE. G. G. CORNWELL & SON, INC., Washington, D. C.
Filed October 22, 1920. Serial No. 138,671. PUBLISHED APRIL 4, 1922.
- 157,034. UNDERWEAR OF ALL KINDS—NAMESLY, THOSE MADE OF SILK, COTTON, WOOL, FOR MEN, WOMEN, AND CHILDREN. THE COTTON STATES HOSIERY MILLS, Chattanooga, Tenn.
Filed October 31, 1919. Serial No. 124,389. PUBLISHED APRIL 25, 1922.
- 157,035. MEN'S AND BOYS' SHOES OF LEATHER OR OF LEATHER AND FABRIC. CRADDOCK - TERRY COMPANY, Lynchburg, Va.
Filed September 3, 1921. Serial No. 152,546. PUBLISHED APRIL 4, 1922.
- 157,036. BED SHEETS, PILLOWCASES, AND BOLSTER CASES, KNOWN AS BED SETS. ROYLE CRAVEN COMPANY, Philadelphia, Pa.
Filed December 23, 1921. Serial No. 157,077. PUBLISHED APRIL 25, 1922.
- 157,037. CERTAIN ARTICLES OF CLOTHING. A. CUNNINGHAM LIMITED, Stewarton, Scotland.
Filed July 20, 1921. Serial No. 150,656. PUBLISHED APRIL 4, 1922.
- 157,038. AIRPLANES. CURTISS AEROPLANE AND MOTOR CORPORATION, Buffalo and Garden City, N. Y.
Filed October 28, 1920. Serial No. 138,898. PUBLISHED DECEMBER 27, 1921.
- 157,039. TROUSERS AND PANTS. DADD & LADD TROUSER COMPANY, Davenport, Iowa.
Filed August 20, 1921. Serial No. 151,982. PUBLISHED APRIL 11, 1922.
- 157,040. TURNING LATHES. DALTON MANUFACTURING CORPORATION, Sound Beach, Conn.
Filed November 10, 1921. Serial No. 155,258. PUBLISHED APRIL 25, 1922.
- 157,041. PHOTOGRAPHIC PAPER. DEFENDER PHOTO SUPPLY COMPANY, INC., Rochester, N. Y.
Filed October 12, 1920. Serial No. 138,213. PUBLISHED FEBRUARY 8, 1921.
- 157,042. CANDY. THE DE KLYN CANDY CO., Cleveland, Ohio.
Filed April 12, 1920. Serial No. 131,018. PUBLISHED FEBRUARY 21, 1922.
- 157,043. CERTAIN NAMED BOTTLE STOPPERS AND BOTTLE LIDS. THOMAS DE LA RUE AND COMPANY LIMITED, London, England.
Filed December 10, 1920. Serial No. 140,880. PUBLISHED JANUARY 31, 1922.
- 157,044. STEAM AND INTERNAL-COMBUSTION ENGINES, AIR COMPRESSORS, AND AIR COMPRESSING AND RECEIVING OUTFITS. DE LA VERGNE MACHINE COMPANY, New York, N. Y.
Filed November 5, 1920. Serial No. 139,198. PUBLISHED APRIL 25, 1922.
- 157,045. MEN'S HATS. DENZER, GOODHART & Co., New York, N. Y.
Filed January 6, 1921. Serial No. 141,898. PUBLISHED APRIL 18, 1922.
- 157,046. CERTAIN ARTICLES OF CLOTHING. DERWENT MILLS LIMITED, Matlock Borough, England.
Filed October 5, 1920. Serial No. 137,921. PUBLISHED APRIL 11, 1922.
- 157,047. FERROUS AND NONFERROUS METAL CASTINGS AND METAL FORGINGS, BUT NOT INCLUDING TEXTILE MACHINERY OR PARTS THEREOF. DUNBAR DROP FORGE COMPANY, Chicago, Ill.
Filed May 16, 1919. Serial No. 118,540. PUBLISHED MAY 10, 1921.
- 157,048. MEN'S AND BOYS' OUTER WEARING NEG-LIGEE AND WORK SHIRTS. SIGMUND EISNER COMPANY, Red Bank, N. J.
Filed January 17, 1921. Serial No. 142,335. PUBLISHED MARCH 28, 1922.
- 157,049. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND PURIFIED DRINKING WATER. THE ELECTROZONE WATER COMPANY, Oklahoma, Okla.
Filed January 24, 1921. Serial No. 142,701. PUBLISHED AUGUST 30, 1921.
- 157,050. BURNERS FOR LIGHTING, HEATING, AND COOKING PURPOSES. ELEKTRIZITÄTSWERK LONZA, Gampel, Switzerland.
Filed March 16, 1921. Serial No. 144,804. PUBLISHED JANUARY 31, 1922.
- 157,051. A GARMENT CONSISTING OF BUNGALOW APRONS FOR NURSES, HOUSEWIVES, AND FEMALES GENERALLY. THE ELIAS AND LOWENSTEIN COMPANY, Cincinnati, Ohio.
Filed January 26, 1921. Serial No. 142,781. PUBLISHED APRIL 25, 1922.
- 157,052. RUBBER SOLES AND HEELS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed December 2, 1921. Serial No. 156,189. PUBLISHED APRIL 11, 1922.
- 157,053. STEEL COAL, WOOD, AND COMBINATION OF COAL AND GAS AND WOOD AND GAS RANGES. EUREKA STEEL RANGE CO., O'Fallon, Ill., and St. Louis, Mo.
Filed November 25, 1921. Serial No. 155,876. PUBLISHED FEBRUARY 28, 1922.
- 157,054. STEEL COAL, WOOD, AND COMBINATION COAL AND GAS AND WOOD AND GAS RANGES. EUREKA STEEL RANGE CO., O'Fallon, Ill., and St. Louis, Mo.
Filed November 25, 1921. Serial No. 155,877. PUBLISHED FEBRUARY 28, 1922.
- 157,055. COFFEE, TEA, SPICES, VINEGAR, AND FLAVORING EXTRACTS FOR FOODS. DAVID G. EVANS COFFEE COMPANY, St. Louis, Mo.
Filed January 27, 1920. Serial No. 127,636. PUBLISHED FEBRUARY 8, 1921.
- 157,056. SHOES AND BOOTS MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS OF THOSE MATERIALS. THE EXCELSIOR SHOE COMPANY, Portsmouth, Ohio.
Filed September 30, 1921. Serial No. 153,546. PUBLISHED APRIL 4, 1922.
- 157,057. EXCELSIOR, EXCELSIOR PRODUCTS—NAMESLY, PADS AND PARTICULARLY EXCELSIOR PADS FOR EGG PACKING. EXCELSIOR WRAPPER COMPANY, Chicago, Ill.
Filed January 16, 1922. Serial No. 157,991. PUBLISHED MARCH 21, 1922.
- 157,058. WATCH BLANKS—THAT IS, THE PLATES AND BRIDGES FORMING THE WATCH CASINGS AND THE UNFINISHED GEARS (STAMPED WHEELS AND PINIONS). FABRIQUE D'HORLOGERIE DE FONTAINEMELON S. A., Fontainemelon, Switzerland.
Filed September 30, 1920. Serial No. 137,771. PUBLISHED MAY 2, 1922.
- 157,059. WATCH BLANKS—THAT IS, THE PLATES AND BRIDGES FORMING THE WATCH CASINGS AND THE UNFINISHED GEARS (STAMPED WHEELS AND PINIONS). FABRIQUE D'HORLOGERIE DE FONTAINEMELON S. A., Fontainemelon, Switzerland.
Filed September 30, 1920. Serial No. 137,772. PUBLISHED MAY 2, 1922.

157,060. FRESH GRAPES. FAIRVIEW GRAPE GROWERS ASS'N, Sanger, Calif.

Filed June 3, 1921. Serial No. 148,589. PUBLISHED APRIL 4, 1922.

157,061. MEN'S OUTER GARMENTS—NAMELY, MEN'S SUITS AND OVERCOATS. JOSEPH JACOB FATT, New York, N. Y.

Filed February 9, 1920. Serial No. 128,149. PUBLISHED APRIL 25, 1922.

157,062. COMBINED SPONGE AND WASH RAG. GEORGE FIERHELLER, Toronto, Ontario, Canada.

Filed September 24, 1921. Serial No. 153,284. PUBLISHED MARCH 21, 1922.

157,063. RUBBER TIRES, PARTICULARLY THE OUTER CASINGS OF AUTOMOBILE TIRES. THE FISK RUBBER COMPANY, Chicopee Falls, Mass.

Filed October 24, 1921. Serial No. 154,497. PUBLISHED JANUARY 31, 1922.

157,064. THREAD AND YARN. THE FLOCK MANUFACTURING COMPANY, Philadelphia, Pa.

Filed November 22, 1921. Serial No. 155,745. PUBLISHED FEBRUARY 28, 1922.

157,065. DIAPERS AND DIAPER MATERIAL. FORNEY & Co., Inc., New York, N. Y.

Filed August 27, 1921. Serial No. 152,244. PUBLISHED MARCH 28, 1922.

157,066. LOCKS, LATCHES, AND PADLOCKS. THE E. T. FRAM LOCK COMPANY, Lancaster, Pa.

Filed May 26, 1921. Serial No. 148,264. PUBLISHED APRIL 25, 1922.

157,067. LOCKS, LATCHES, AND PADLOCKS. THE E. T. FRAM LOCK COMPANY, Lancaster, Pa.

Filed May 26, 1921. Serial No. 148,265. PUBLISHED APRIL 25, 1922.

157,068. METAL TERMINALS OR ELECTRODES FOR SPARK PLUGS. HARDY M. FREDRIKSEN, Tacoma, Wash., assignor to Spark-O-Metals Company, Seattle, Wash.

Filed May 16, 1918. Serial No. 110,922. PUBLISHED NOVEMBER 5, 1920.

157,069. HATS AND CAPS FOR MEN AND BOYS. FREED & COMPANY, Chicago, Ill.

Filed July 21, 1921. Serial No. 150,741. PUBLISHED APRIL 4, 1922.

157,070. ICE-MAKING AND REFRIGERATING MACHINERY. FRICK COMPANY, Waynesboro, Pa.

Filed May 23, 1921. Serial No. 148,062. PUBLISHED APRIL 25, 1922.

157,071. TIES, CRAVATS, AND FOUR-IN-HAND TIES. FRIEDMAN BROS. & SON NECKWEAR COMPANY INC., New York, N. Y.

Filed June 11, 1921. Serial No. 148,985. PUBLISHED APRIL 11, 1922.

157,072. MEN'S NAINSOOK ATHLETIC UNDERWEAR, BOTH ONE AND TWO PIECE GARMENTS. MAX J. FRIEDMAN, New York, N. Y.

Filed August 25, 1921. Serial No. 152,167. PUBLISHED MARCH 28, 1922.

157,073. TOILET BRUSHES—NAMELY, HAIR AND TOOTH BRUSHES. GEO. R. GIBSON Co., New York, N. Y.

Filed December 8, 1920. Serial No. 140,794. PUBLISHED NOVEMBER 1, 1921.

157,074. WOMEN'S COTTON APRONS AND DRESSES. I. GINSBERG & BROS., New York, N. Y.

Filed August 5, 1921. Serial No. 151,455. PUBLISHED MARCH 28, 1922.

157,075. WOMEN'S, MISSES', AND CHILDREN'S DRESSES, SKIRTS, AND WAISTS MADE OF COTTON FABRIC. I. GINSBERG & BROS., New York, N. Y.

Filed August 5, 1921. Serial No. 151,456. PUBLISHED MARCH 28, 1922.

157,076. FABRIC SLIPPERS. ISAAC GOLDBERG, New York, N. Y.

Filed October 12, 1921. Serial No. 154,020. PUBLISHED APRIL 4, 1922.

157,077. LEATHER, KID, FABRIC, SUEDE, AND SILK GLOVES. GOODHAND, SMITH & JOHN, INC., Wilmington, Del., and New York, N. Y.

Filed July 19, 1921. Serial No. 150,614. PUBLISHED APRIL 11, 1922.

157,078. BOOTS, SHOES, LEGGINGS, SPATS, RUBBERS, GAITERS, AND OVERSHOES, EACH OF SAID ARTICLES OF GOODS BEING EITHER OF LEATHER, RUBBER, FABRIC, OR OF COMBINATION OF THE SAID MATERIALS. HYMAN GORDON, New York, N. Y.

Filed December 19, 1921. Serial No. 156,898. PUBLISHED APRIL 11, 1922.

157,079. CANDY. GRAMERCY CHOCOLATE COMPANY, INC., New York, N. Y.

Filed September 16, 1919. Serial No. 122,772. PUBLISHED APRIL 11, 1922.

157,080. LEATHER BELTING. GRANT LEATHER CORPORATION, Kingsport, Tenn.

Filed September 12, 1921. Serial No. 152,845. PUBLISHED DECEMBER 27, 1921.

157,081. FANCY YARNS AND ACETYLCELLULOSE THREAD. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.

Filed December 7, 1921. Serial No. 156,378. PUBLISHED FEBRUARY 28, 1922.

157,082. WOOD HEELS. GRAY-HATHAWAY WOOD HEEL COMPANY, Lynn, Mass.

Filed January 17, 1922. Serial No. 158,040. PUBLISHED APRIL 18, 1922.

157,083. AUTOMOBILES AND THEIR STRUCTURAL PARTS. GRAY MOTOR CORPORATION, Detroit, Mich.

Filed December 9, 1921. Serial No. 156,490. PUBLISHED FEBRUARY 28, 1922.

157,084. MEN'S DRESS, WORK, AND NEGLIGEE SHIRTS. GREENBAUM, WEIL & MICHELS, San Francisco, Calif.

Filed August 16, 1921. Serial No. 151,828. PUBLISHED APRIL 25, 1922.

157,085. CONDIMENTS AND SPICES—NAMELY, PEPPER SAUCE, PICKLED PEPPERS, GROUND CAYENNE PEPPER, CHOWCHOW—AND CANNED FRUITS. THE GREEN TOP COMPANY, New Iberia La.

Filed December 7, 1921. Serial No. 156,382. PUBLISHED APRIL 18, 1922.

157,086. CLOTH GLOVES. GREWEN FABRIC COMPANY, INC., Johnston, N. Y.

Filed October 28, 1921. Serial No. 154,685. PUBLISHED APRIL 18, 1922.

157,087. GARMENT HANGERS. JOHN GRIMBERG, New York, N. Y.

Filed October 27, 1921. Serial No. 154,643. PUBLISHED JANUARY 31, 1922.

157,088. TEXTILE FABRIC COATED WITH WATER-PROOF MATERIAL AND HAVING AN ORNAMENTAL FINISH, FOR USE IN MILLINERY AND FOR DECORATIVE PURPOSES, SOLD IN THE PIECE. MAURICE W. GRINNELL, New York, N. Y.

Filed July 9, 1921. Serial No. 150,191. PUBLISHED MARCH 21, 1922.

157,089. BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. J. J. GROVER'S SONS COMPANY, Lynn, Mass.

Filed November 12, 1921. Serial No. 155,306. PUBLISHED APRIL 4, 1922.

157,090. DISTILLED WATER, NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS FOR MAKING THE SAME. H-O STILL COMPANY, Baltimore, Md.

Filed December 15, 1920. Serial No. 141,107. PUBLISHED AUGUST 30, 1921.

- 157,091. FIRE FENDERS. FURNACE BARS. HADFIELDS LIMITED, Sheffield, England.
Filed August 19, 1920. Serial No. 136,262. PUBLISHED DECEMBER 27, 1921.
- 157,092. LEATHER SHOES. J. S. HALL'S SONS, Knoxville, Tenn.
Filed December 3, 1921. Serial No. 156,224. PUBLISHED APRIL 4, 1922.
- 157,093. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER AND FABRIC. WM. HAHN & CO., Washington, D. C.
Filed July 8, 1921. Serial No. 150,147. PUBLISHED APRIL 11, 1922.
- 157,094. FINGER-PIECE EYEGLASS MOUNTINGS. F. A. HARDY & COMPANY, Chicago, Ill.
Filed November 3, 1921. Serial No. 154,980. PUBLISHED APRIL 25, 1922.
- 157,095. PLUMBERS' TABLES AND VISE SUPPORTS. GEORGE L. HARGEY, trading as Standall Works, Pottsville, Pa.
Filed December 15, 1921. Serial No. 156,743. PUBLISHED APRIL 25, 1922.
- 157,096. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. THE HERZFELD-PHILLIPSON COMPANY, Milwaukee, Wis.
Filed December 15, 1919. Serial No. 126,028. PUBLISHED MARCH 28, 1922.
- 157,097. WORK CLOTHES IN THE NATURE OF OVERALLS, PANTS, AND SHIRTS. HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y.
Filed August 2, 1921. Serial No. 151,269. PUBLISHED APRIL 25, 1922.
- 157,098. BEDROOM SLIPPERS MADE OF FABRIC WITH SOFT-LEATHER BOTTOMS. SAMUEL JAMES HILL, Atlanta, Ga.
Filed November 5, 1921. Serial No. 155,058. PUBLISHED APRIL 11, 1922.
- 157,099. TROUSERS, SHIRT, COAT, GOWN, AND SUIT HANGERS, SINGLY AND IN COMBINATION. HINCHER MANUFACTURING COMPANY OF INDIANA, Washington, Ind.
Filed December 24, 1920. Serial No. 141,493. PUBLISHED DECEMBER 27, 1921.
- 157,100. FIRECRACKERS. HITT FIREWORKS COMPANY, Inc., Seattle, Wash.
Filed March 30, 1921. Serial No. 145,448. PUBLISHED APRIL 25, 1922.
- 157,101. COFFEE AND TEA. HOFFMAN-HAYMAN COFFEE COMPANY, San Antonio, Tex.
Filed September 7, 1920. Serial No. 136,889. PUBLISHED MARCH 28, 1922.
- 157,102. CLOTHS OF WOOL MADE BY THE YARD OR IN THE PIECE. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England.
Filed April 29, 1921. Serial No. 146,964. PUBLISHED APRIL 25, 1922.
- 157,103. RUBBER HEELS. HOOD RUBBER COMPANY, Watertown, Mass.
Filed November 9, 1921. Serial No. 155,227. PUBLISHED APRIL 4, 1922.
- 157,104. CLOTH IN THE PIECE OF WOOL, COTTON, OR MIXTURES OF THE SAME. HOWARD AND JONES, Inc., New York, N. Y.
Filed June 20, 1921. Serial No. 149,401. PUBLISHED APRIL 11, 1922.
- 157,105. TROUSERS. H. & S. MANUFACTURING COMPANY, Los Angeles, Calif.
Filed August 27, 1921. Serial No. 152,256. PUBLISHED MARCH 28, 1922.
- 157,106. RUBBER TIRES. HUDSON TIRE CO. INC., Newark, N. J.
Filed August 18, 1921. Serial No. 151,914. PUBLISHED FEBRUARY 21, 1922.
- 157,107. WOOLEN AND CANVAS CAMPING OR SLEEPING BAGS. F. C. HUYCK & SONS, Albany, N. Y.
Filed September 9, 1921. Serial No. 152,750. PUBLISHED APRIL 11, 1922.
- 157,108. WOOLEN AND CANVAS CAMPING OR SLEEPING BAGS. F. C. HUYCK & SONS, Albany, N. Y.
Filed September 9, 1921. Serial No. 152,751. PUBLISHED APRIL 11, 1922.
- 157,109. SHOES MADE FROM LEATHER, RUBBER, AND FABRIC OR COMBINATIONS THEREOF. IDEAL SHOE MANUFACTURING COMPANY, Milwaukee, Wis.
Filed July 30, 1921. Serial No. 151,168. PUBLISHED APRIL 4, 1922.
- 157,110. COAL, WOOD, COKE, OIL, AND GAS STOVES, RANGES, FURNACES, AND COMBINATION COAL AND GAS STOVES. THE INDEPENDENT STOVE COMPANY, Owosso, Mich.
Filed December 19, 1921. Serial No. 156,908. PUBLISHED MARCH 21, 1922.
- 157,111. CHEWING GUM. THE INDIA COMPANY, Newark, N. J.
Filed March 8, 1921. Serial No. 144,458. PUBLISHED APRIL 4, 1922.
- 157,112. AUTOMOBILE LUGGAGE CARRIERS AND AUTOMOBILE TIRE CARRIERS. THE INTERLOCK HARDWARE COMPANY, INC., New Haven, Conn.
Filed March 11, 1921. Serial No. 144,621. PUBLISHED DECEMBER 27, 1921.
- 157,113. SHOES FOR MEN, WOMEN, AND CHILDREN, MADE OF LEATHER, RUBBER, FABRIC, OR THE COMBINATION THEREOF. INTERNATIONAL SHOE CO., St. Louis, Mo.
Filed July 19, 1921. Serial No. 150,617. PUBLISHED APRIL 11, 1922.
- 157,114. GLASS MILK BOTTLES. WALTER L. JOHNSON, Endicott, N. Y.
Filed September 21, 1921. Serial No. 153,181. PUBLISHED DECEMBER 27, 1921.
- 157,115. YARNS, WARPS, FLOSSES, THREADS, AND TINSEL PRODUCTS—NAMELY, TINSEL THREADS. THE J. R. MONTGOMERY COMPANY, Windsor Locks, Conn.
Filed May 20, 1921. Serial No. 147,971. PUBLISHED FEBRUARY 28, 1922.
- 157,116. HOSIERY. SIMON KAPLAN, New York, N. Y.
Filed August 24, 1921. Serial No. 152,129. PUBLISHED MARCH 28, 1922.
- 157,117. CERTAIN NAMED AEROPLANES AND PARTS THEREOF. HORACE KEANE AEROPLANES, Inc., New York, N. Y.
Filed November 6, 1920. Serial No. 139,278. PUBLISHED MARCH 21, 1922.
- 157,118. TRACTORS AND CARBURETORS. HORACE KEANE AEROPLANES, INC., New York, N. Y.
Filed November 6, 1920. Serial No. 139,279. PUBLISHED APRIL 25, 1922.
- 157,119. HOSIERY OF ALL KINDS. KEESEY HOSIERY COMPANY, Mount Holly, N. J.
Filed June 27, 1921. Serial No. 149,705. PUBLISHED APRIL 18, 1922.
- 157,120. WOMEN'S UNDERGARMENTS AND SANITARY PANTALETES. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed August 15, 1921. Serial No. 151,800. PUBLISHED MARCH 28, 1922.
- 157,121. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF AND CERTAIN ACCESSORIES THEREFOR. KNOX MOTORS COMPANY, Springfield, Mass.
Filed November 6, 1920. Serial No. 139,283. PUBLISHED MARCH 22, 1921.

- 157,122. CERTAIN NAMED CARS AND PARTS THEREOF. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppell and Pittsburgh, Pa.
Filed May 13, 1920. Serial No. 132,392. PUBLISHED JANUARY 31, 1922.
- 157,123. LADIES' AND MISSES' LEATHER SHOES. THE KRIPPENDORF-DITTMANN Co., Cincinnati, Ohio.
Filed August 22, 1921. Serial No. 152,016. PUBLISHED APRIL 4, 1922.
- 157,124. CHILDREN'S GARMENTS CONSISTING OF GIRLS' ROMPERS, PLAY GARMENTS, AND DRESSES. KUH BROTHERS, San Francisco, Calif.
Filed July 12, 1921. Serial No. 150,274. PUBLISHED APRIL 11, 1922.
- 157,125. CUT LEATHER SOLES. R. S. LAWRENCE, London, England.
Filed July 28, 1920. Serial No. 135,478. PUBLISHED APRIL 25, 1922.
- 157,126. PAPER TABLETS, PAPETERIES, ENVELOPES, AND BOXES OF SHEET PAPER. CHARLES LEICH & Co., Evansville, Ind.
Filed January 23, 1922. Serial No. 158,316. PUBLISHED APRIL 25, 1922.
- 157,127. CERTAIN ARTICLES OF CLOTHING. NATHAN LEVIN, Pittsburgh, Pa.
Filed April 4, 1921. Serial No. 145,695. PUBLISHED MARCH 14, 1922.
- 157,128. CERTAIN NAMED PIECE GOODS. LEWIS MANUFACTURING Co., Walpole, Mass.
Filed April 19, 1921. Serial No. 146,380. PUBLISHED APRIL 25, 1922.
- 157,129. RUBBER TIRES. B. LICHTIG & SON, INC., Oakland, Calif.
Filed November 8, 1921. Serial No. 155,179. PUBLISHED FEBRUARY 28, 1922.
- 157,130. GAS MANTLES. LINDSAY LIGHT COMPANY, Chicago, Ill.
Filed March 14, 1921. Serial No. 144,729. PUBLISHED FEBRUARY 28, 1922.
- 157,131. GAS MANTLES. LINDSAY LIGHT COMPANY, Chicago, Ill.
Filed November 10, 1921. Serial No. 155,267. PUBLISHED FEBRUARY 28, 1922.
- 157,132. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,047. PUBLISHED APRIL 4, 1922.
- 157,133. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,048. PUBLISHED APRIL 4, 1922.
- 157,134. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,049. PUBLISHED APRIL 4, 1922.
- 157,135. WOMEN'S AND CHILDREN'S HATS. W. H. LITTLEFIELD AND COMPANY INC., Buffalo, N. Y.
Filed July 28, 1921. Serial No. 151,050. PUBLISHED APRIL 4, 1922.
- 157,136. SAFETY-RAZOR-BLADE-STROPPING HOLDERS. JOHN J. LOCHMAN, Carlstadt, N. J.
Filed October 4, 1921. Serial No. 153,731. PUBLISHED APRIL 25, 1922.
- 157,137. MEN'S AND CHILDREN'S HATS AND CAPS. D. E. LOEWE & Co., Danbury, Conn.
Filed August 17, 1921. Serial No. 151,878. PUBLISHED APRIL 25, 1922.
- 157,138. SILK DRESSES. DAVID H. LOWENTHAL & Co., New York, N. Y.
Filed September 2, 1921. Serial No. 152,512. PUBLISHED MARCH 28, 1922.
- 157,139. GRATES AND STOKERS. McCLAVE-BROOKS Co., Scranton, Pa.
Filed October 4, 1921. Serial No. 153,732. PUBLISHED JANUARY 31, 1922.
- 157,140. WATERPROOFED TEXTILE FABRICS SUITABLE FOR RAINCOATS. EDWARD McCONNELL & Co., New York, N. Y.
Filed October 11, 1919. Serial No. 123,706. PUBLISHED FEBRUARY 21, 1922.
- 157,141. BOATS. McINTYRE BROS., Cranford, N. J.
Filed January 26, 1922. Serial No. 158,485. PUBLISHED FEBRUARY 28, 1922.
- 157,142. MEN'S, LADIES', CHILDREN'S, AND INFANTS' HOSIERY. WM. T. McVAUGH COMPANY, INC., New York, N. Y.
Filed May 23, 1921. Serial No. 148,082. PUBLISHED APRIL 11, 1922.
- 157,143. RAZOR-STROP DRESSING. JOHN M. McVOY, Springhill, Ala.
Filed July 30, 1921. Serial No. 151,185. PUBLISHED FEBRUARY 7, 1922.
- 157,144. RUBBER BELTING AND RUBBER HOSE. THE MANHATTAN RUBBER MFG. Co., Passaic, N. J.
Filed April 11, 1921. Serial No. 146,025. PUBLISHED FEBRUARY 21, 1922.
- 157,145. SHOCK ABSORBERS FOR AUTOMOBILES. THE MARVEL SHOCK ABSORBER COMPANY, Cleveland, Ohio.
Filed April 25, 1921. Serial No. 146,721. PUBLISHED JANUARY 31, 1922.
- 157,146. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONF. MFG. Co., Brooklyn, N. Y.
Filed February 19, 1919. Serial No. 115,994. PUBLISHED MARCH 9, 1920.
- 157,147. MOPS. MASSASOIT MANUFACTURING COMPANY, Fall River, Mass.
Filed March 4, 1920. Serial No. 129,222. PUBLISHED NOVEMBER 2, 1920.
- 157,148. SHOES AND MOCCASINS MADE OF LEATHER AND ALSO MADE OF FABRIC FOR BABIES. THE MATER-MACK Co., INC., Rochester, N. Y.
Filed October 12, 1921. Serial No. 154,039. PUBLISHED APRIL 4, 1922.
- 157,149. ELECTRICAL TOYS. MECCANO LIMITED, Liverpool, England.
Filed October 21, 1920. Serial No. 138,647. PUBLISHED DECEMBER 20, 1921.
- 157,150. LADIES' DRESSES. MEYER CLOAK & DRESS Co. INC., Baltimore, Md.
Filed July 11, 1921. Serial No. 150,243. PUBLISHED MARCH 28, 1922.
- 157,151. CERTAIN ARTICLES OF CLOTHING. MILL-RICK SERVICE, New York, N. Y.
Filed August 1, 1921. Serial No. 151,227. PUBLISHED APRIL 11, 1922.
- 157,152. FABRIC GLOVES. MILLS & GIBB CORPORATION, New York, N. Y.
Filed September 22, 1921. Serial No. 153,219. PUBLISHED APRIL 11, 1922.
- 157,153. COTTON, SILK, LINEN, AND MIXTURES OF COTTON AND SILK AND LINEN AND SILK PIECE GOODS. JACOB MILLER SONS & Co., Philadelphia, Pa.
Filed December 12, 1921. Serial No. 156,588. PUBLISHED APRIL 25, 1922.
- 157,154. LEATHER SLIPPERS AND SHOES. LAURENCE WILNOR MORRISON, Milwaukee, Wis.
Filed April 21, 1921. Serial No. 146,491. PUBLISHED APRIL 11, 1922.
- 157,155. A LENS. WALTER E. MOULTON, Geneva, Ohio.
Filed January 3, 1922. Serial No. 157,437. PUBLISHED FEBRUARY 28, 1922.
- 157,156. NATURAL AND ARTIFICIAL VANILLA FLAVORING COMPOUNDS. THE MULLER-HOUSEMAN COMPANY, Grand Rapids, Mich.
Filed December 17, 1920. Serial No. 141,231. PUBLISHED MARCH 7, 1922.

- 157,157. CERTAIN ARTICLES OF CLOTHING. CHARLES MUNTER, New York, N. Y.
Filed December 20, 1920. Serial No. 141,323. PUBLISHED APRIL 11, 1922.
- 157,158. MEN'S, WOMEN'S, AND CHILDREN'S KNITTED OR TEXTILE UNDERWEAR; SWEATERS, NECKTIES, CORSETS, HATS, CAPS, AND SCARFS. MYERS DRY GOODS Co., Morristown, Tenn.
Filed November 24, 1920. Serial No. 140,130. PUBLISHED APRIL 18, 1922.
- 157,159. LEATHER SHOES, FABRIC SHOES, AND SHOES FORMED OF BOTH LEATHER AND FABRIC. NATHAN, MORPHY & Co., Inc., Lewiston, Me.
Filed July 29, 1921. Serial No. 151,096. PUBLISHED APRIL 4, 1922.
- 157,160. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. NORTH BROS. & Co., Baltimore, Md.
Filed August 22, 1921. Serial No. 152,033. PUBLISHED APRIL 11, 1922.
- 157,161. AUTOMOBILES AND MOTOR TRUCKS. NORTHWAY MOTORS CORPORATION, Natick, Mass.
Filed June 10, 1921. Serial No. 148,947. PUBLISHED DECEMBER 27, 1921.
- 157,162. HEELS OF RUBBER AND LEATHER IN COMBINATION. NOVA HEEL MANUFACTURING CO., Berkeley, Calif.
Filed October 13, 1921. Serial No. 154,063. PUBLISHED APRIL 18, 1922.
- 157,163. TROUSERS. D. M. OBERMAN MFG. Co., Jefferson City, Mo.
Filed April 22, 1921. Serial No. 146,582. PUBLISHED APRIL 11, 1922.
- 157,164. SALT. THE OHIO SALT COMPANY, Wadsworth, Ohio.
Filed December 3, 1921. Serial No. 156,237. PUBLISHED MARCH 21, 1922.
- 157,165. OLIVE OIL. OLEICOLA TARRAGONA S. A., Tarragona, Spain.
Filed June 25, 1921. Serial No. 149,660. PUBLISHED APRIL 4, 1922.
- 157,166. BATHING SUITS. OLIVER KNITTING COMPANY, Philadelphia, Pa.
Filed August 31, 1921. Serial No. 152,440. PUBLISHED MARCH 28, 1922.
- 157,167. HOSIERY. OLIVER KNITTING COMPANY, Philadelphia, Pa.
Filed August 31, 1921. Serial No. 152,441. PUBLISHED MARCH 28, 1922.
- 157,168. TABLE KNIVES, FORKS, AND SPOONS OF BASE METALS FOR HOUSEHOLD USE; POCKET-KNIVES, SCISSORS; DIES FOR ENGRAVING, STAMPING, OR EMBOSSED STATIONERY. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,400. PUBLISHED APRIL 25, 1922.
- 157,169. CHINAWARE, EARTHENWARE, AND PORCELAIN. OVINGTON BROS. COMPANY, New York, N. Y.
Filed January 18, 1921. Serial No. 142,410. PUBLISHED APRIL 4, 1922.
- 157,170. CANDIES AND ICE CREAM. PANGBURN COMPANY, Inc., Fort Worth, Tex.
Filed June 21, 1921. Serial No. 149,478. PUBLISHED APRIL 11, 1922.
- 157,171. PISTON RINGS. THE PERFECTION PISTON RING COMPANY, Ravenna, Ohio.
Filed March 11, 1921. Serial No. 144,635. PUBLISHED FEBRUARY 28, 1922.
- 157,172. CANNED FRUITS, VEGETABLES, SCALE AND SHELL FISH, AND VINEGAR. J. C. PERRY & COMPANY, Indianapolis, Ind.
Filed December 7, 1921. Serial No. 156,400. PUBLISHED APRIL 18, 1922.
- 157,173. CERTAIN NAMED CONSTRUCTION MATERIALS. THE PHILIP CAREY MANUFACTURING CO., Lockland, Ohio.
Filed September 26, 1921. Serial No. 153,339. PUBLISHED FEBRUARY 7, 1922.
- 157,174. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF. THE PIERCE-ARROW MOTOR CAR COMPANY, Buffalo, N. Y.
Filed October 7, 1920. Serial No. 138,060. PUBLISHED APRIL 25, 1922.
- 157,175. TOY AEROPLANES. PERCY PIERCE, Philadelphia, Pa.
Filed October 30, 1919. Serial No. 124,355. PUBLISHED SEPTEMBER 7, 1920.
- 157,176. BOOTS, SHOES, AND SLIPPERS MADE EITHER WHOLLY OF LEATHER OR OF FABRIC, SUCH AS CANVAS, SATIN, OR CLOTH OR A COMBINATION OF LEATHER AND FABRIC. THE PLAUT-BUTLER COMPANY, Cincinnati, Ohio.
Filed October 24, 1921. Serial No. 154,530. PUBLISHED APRIL 4, 1922.
- 157,177. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed November 19, 1921. Serial No. 155,635. PUBLISHED APRIL 4, 1922.
- 157,178. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed November 19, 1921. Serial No. 155,636. PUBLISHED APRIL 4, 1922.
- 157,179. REBUILT TYPEWRITERS, TYPEWRITER REPAIR PARTS, PLATEN ROLLERS, TYPEWRITER REPAIR AND MAINTENANCE KITS. ABRAM H. POST, Chicago, Ill.
Filed November 10, 1921. Serial No. 155,274. PUBLISHED APRIL 25, 1922.
- 157,180. LADIES' HATS. QUAKER HAT COMPANY, New York, N. Y.
Filed July 12, 1921. Serial No. 150,289. PUBLISHED APRIL 11, 1922.
- 157,181. RAILWAY SPIKES. RAILWAY LOCK-SPIKE CO., Atlanta, Ga.
Filed August 5, 1921. Serial No. 151,478. PUBLISHED APRIL 25, 1922.
- 157,182. MEN'S DRESS, NEGLIGEE, AND WORK SHIRTS. RAUH BROS. & Co., Pittsburgh, Pa.
Filed March 30, 1921. Serial No. 145,477. PUBLISHED DECEMBER 20, 1921.
- 157,183. BRAKE LINING. THE RAYBESTOS COMPANY, Bridgeport, Conn.
Filed July 16, 1921. Serial No. 150,469. PUBLISHED FEBRUARY 21, 1922.
- 157,184. AUTOMOBILE TEXTILE FAN BELTS. RAYDEO BELT CO., Pleasant Ridge, Ohio.
Filed October 17, 1921. Serial No. 154,237. PUBLISHED MARCH 21, 1922.
- 157,185. [WITHDRAWN.]
- 157,186. SKIN GLOVES. REYNIER & CIE., Grenoble, France, assignor to Etablissements Reynier, Grenoble, France, a Corporation of France.
Filed March 16, 1921. Serial No. 144,835. PUBLISHED APRIL 11, 1922.
- 157,187. THREADS AND YARNS OF SILK AND ARTIFICIAL SILK. A. H. RICE COMPANY, Pittsfield, Mass.
Filed October 18, 1921. Serial No. 154,285. PUBLISHED DECEMBER 27, 1921.
- 157,188. COFFEE. RIDENOUR-BAKER GROCERY COMPANY, Kansas City, Mo.
Filed May 24, 1921. Serial No. 148,160. PUBLISHED OCTOBER 4, 1921.

- 157,189. LEATHER SHOES AND LEATHER SHOE SOLES. R. K. L. COMPANY, Grand Rapids, Mich.
Filed October 6, 1921. Serial No. 153,825. PUBLISHED APRIL 4, 1922.
- 157,190. WOMEN'S DRESSES. CHARLES H. D. ROBINS Co., Inc., New York, N. Y.
Filed November 23, 1920. Serial No. 140,068. PUBLISHED APRIL 25, 1922.
- 157,191. MILLINERY AND LADIES' READY-TO-WEAR GARMENTS. MAY ROBINS, Fort Smith, Ark.
Filed June 16, 1921. Serial No. 149,244. PUBLISHED APRIL 18, 1922.
- 157,192. TRUCK BODIES. LORENA W. ROBINSON, Dallas, Tex.
Filed February 2, 1920. Serial No. 127,871. PUBLISHED DECEMBER 27, 1921.
- 157,193. WORK SHIRTS. ROMBRO BROTHERS, Baltimore, Md.
Filed August 26, 1920. Serial No. 136,532. PUBLISHED FEBRUARY 1, 1921.
- 157,194. COMBINATION SPORT SHIRT AND DRAWERS. ROTHSCHILD & SONS, Kansas City, Mo.
Filed August 5, 1921. Serial No. 151,479. PUBLISHED JANUARY 31, 1922.
- 157,195. BOOTS AND SHOES OF A COMBINATION OF LEATHER, RUBBER, AND FABRIC. RUBBERHIDE COMPANY, Boston, Mass.
Filed November 18, 1920. Serial No. 139,818. PUBLISHED MARCH 28, 1922.
- 157,196. RESILIENT HEELS FOR FOOTWEAR. ARTHUR L. RUNYAN, Omaha, Nebr., assignor to The Anchor Grip Heel Company, Willoughby, Ohio.
Filed November 7, 1917. Serial No. 107,254. PUBLISHED APRIL 25, 1922.
- 157,197. SHOES MADE OF LEATHER AND ALSO OF COMBINATIONS OF LEATHER AND FABRIC. THE SACHS SHOE MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed July 22, 1921. Serial No. 150,830. PUBLISHED APRIL 4, 1922.
- 157,198. WOMEN'S HATS. SAKS & COMPANY, New York, N. Y.
Filed August 23, 1921. Serial No. 152,103. PUBLISHED APRIL 11, 1922.
- 157,199. PAPER LUNCHEON SETS. THE SANITARY PRODUCTS CORPORATION OF AMERICA, Philadelphia, Pa.
Filed February 10, 1921. Serial No. 143,412. PUBLISHED DECEMBER 27, 1921.
- 157,200. LIFTING JACKS AND LIFTING-JACK BASES. THE O. P. SCHRIVER COMPANY, Cincinnati, Ohio.
Filed December 14, 1921. Serial No. 156,717. PUBLISHED APRIL 25, 1922.
- 157,201. WOMEN'S BLOUSES AND WAISTS. SEARS, ROEBUCK AND Co., Chicago, Ill.
Filed August 29, 1921. Serial No. 152,349. PUBLISHED MARCH 28, 1922.
- 157,202. WOOL, SHETLAND FLOSS, WORSTED, MOHAIR, ALPACA, CAMEL HAIR, SILK, AND FIBER SILK PIECE GOODS. OTTO SEISS, doing business under the name of Newark Knitting Works, Newark, N. J.
Filed February 12, 1921. Serial No. 143,509. PUBLISHED APRIL 25, 1922.
- 157,203. WOOL, SHETLAND FLOSS, WORSTED, MOHAIR, ALPACA, CAMEL HAIR, SILK, AND FIBER SILK PIECE GOODS. OTTO SEISS, doing business under the name of Newark Knitting Works, Newark, N. J.
Filed February 12, 1921. Serial No. 143,510. PUBLISHED APRIL 25, 1922.
- 157,204. COTTON GLOVES AND MITTENS. THE SEN-BCA GLOVE & MITTEN MANUFACTURING COMPANY, Tiffin, Ohio.
Filed May 4, 1920. Serial No. 132,032. PUBLISHED MARCH 28, 1922.
- 157,205. MEN'S, YOUNG MEN'S, AND BOYS' SUITS, COATS, TROUSERS, KNICKERBOCKERS, OVERCOATS, RAINCOATS, SPORT COATS, TOPCOATS, GABERDINE COATS, AND MACKINTOSHES. THE SIEBLER CLOTHES COMPANY, Cincinnati, Ohio.
Filed October 3, 1921. Serial No. 153,698. PUBLISHED APRIL 18, 1922.
- 157,206. MOTOR CYCLES, SIDE CARS, AND TRAILERS. SINCLAIR MILITARY CORPORATION, New York, N. Y.
Filed January 12, 1922. Serial No. 157,854. PUBLISHED FEBRUARY 28, 1922.
- 157,207. CINEMATOGRAPH FILMS FOR EXHIBITION. SOCIETA ANONIMA ITALA FILM, Turin, Italy.
Filed November 8, 1921. Serial No. 155,196. PUBLISHED APRIL 25, 1922.
- 157,208. PYJAMAS, ROBES, AND COMBINATION SETS OF PYJAMAS AND ROBES. STADIUM UNDERWEAR Co. Inc., Baltimore, Md.
Filed August 9, 1921. Serial No. 151,596. PUBLISHED APRIL 4, 1922.
- 157,209. MACHINE TOOLS—NAMESLY, GAUGE GRINDERS AND SHAPERS, JIGS, MACHINE-TOOL FIXTURES, AND METAL-WORKING DIES. THE STEEL PRODUCTS ENGINEERING COMPANY, Springfield, Ohio.
Filed May 31, 1921. Serial No. 148,463. PUBLISHED APRIL 25, 1922.
- 157,210. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. STERLING HOSIERY Co., Chicago, Ill.
Filed May 27, 1921. Serial No. 148,353. PUBLISHED APRIL 11, 1922.
- 157,211. CULINARY AND KITCHEN UTENSILS MADE OF METAL—NAMESLY, PANS, KETTLES, POTS, BOWLS, DISHES, BATHTUBS, BASINS, TRAYS, AND PLATES. ERNEST STEVENS LIMITED, Cradley Heath, England.
Filed May 10, 1921. Serial No. 147,533. PUBLISHED MARCH 7, 1922.
- 157,212. WOMEN'S, MISSES', AND CHILDREN'S SUITS, DRESSES, COATS, SKIRTS, BLOUSES, WAISTS, GYMNASIUM SUITS, BLOOMERS, AND BOYS' SUITS. THE STROUSE-BAER Co., Baltimore, Md.
Filed July 17, 1920. Serial No. 135,115. PUBLISHED MARCH 28, 1922.
- 157,213. SWEATERS. SUNBEAM KNITTING MILLS INC., New York, N. Y.
Filed September 7, 1921. Serial No. 152,690. PUBLISHED MARCH 28, 1922.
- 157,214. MEN'S, BOYS', WOMEN'S, MISSES', AND CHILDREN'S KNIT UNDERWEAR. SUPERIOR KNITTING COMPANY INC., Port Carbon, Pa.
Filed August 4, 1921. Serial No. 151,436. PUBLISHED MARCH 28, 1922.
- 157,215. KNITTED UNDERWEAR FOR WOMEN. SYLVA KNITTING COMPANY, Hamburg, Pa.
Filed June 4, 1921. Serial No. 148,677. PUBLISHED APRIL 25, 1922.
- 157,216. BOYS' AND CHILDREN'S PLAY SUITS. TAUBER, LIPTON & Co., New York, N. Y.
Filed August 27, 1921. Serial No. 152,289. PUBLISHED MARCH 28, 1922.
- 157,217. A MALTLESS, NONALCOHOLIC BEVERAGE SOLD AS A SOFT DRINK AND SIRUPS FOR THE MANUFACTURE OF THE SAME. THEONETT & Co. INC., Chicago, Ill.
Filed April 1, 1921. Serial No. 145,598. PUBLISHED JULY 19, 1921.
- 157,218. COAL AND COKE. THERMOT COAL & COKE Co., Binghamton, N. Y.
Filed September 20, 1919. Serial No. 122,954. PUBLISHED FEBRUARY 8, 1921.
- 157,219. CERTAIN CUTTING TOOLS FOR WORKING WOOD AND METAL. JOSEPH THOMPSON, by Timothy Shaw Woodcock, William Thompson, and Ernest Thompson, executors, doing business under the name of Joseph Thompson, Sheffield, England.
Filed March 7, 1921. Serial No. 144,438. PUBLISHED APRIL 25, 1922.

- 157,220. COMMERCIAL MOTOR VEHICLES—NAMESLY, TRUCKS AND AUTOMOBILES USED FOR CARRYING MERCHANDISE OR THE LIKE. JOHN I. THORNCROFT & Co. LIMITED, Westminster, England. Filed July 25, 1921. Serial No. 150,943. PUBLISHED DECEMBER 13, 1921.
- 157,221. HAIR NETS. THURN, BROWNE & COHEN INC., New York, N. Y. Filed November 16, 1920. Serial No. 139,725. PUBLISHED APRIL 25, 1922.
- 157,222. MEN'S SUITS, CHILDREN'S SUITS, WOMEN'S OUTER SKIRTS, OUTER WAISTS, SUITS, AND DRESSES, ALL THE ABOVE GARMENTS USED FOR BURIAL PURPOSES. THEO. TIEDEMANN & Sons, INC., New York, N. Y. Filed August 12, 1921. Serial No. 151,729. PUBLISHED APRIL 4, 1922.
- 157,223. MOTOR TRUCKS AND TRAILERS. TRAYLOR ENGINEERING & MANUFACTURING COMPANY, Allentown, Pa. Filed December 15, 1920. Serial No. 141,139. PUBLISHED DECEMBER 27, 1921.
- 157,224. AUTOMOBILE ACCESSORIES—NAMESLY, TIRE CARRIERS. THE TREXLER COMPANY, Philadelphia, Pa. Filed May 13, 1921. Serial No. 147,755. PUBLISHED MARCH 21, 1922.
- 157,225. BOOTS AND SHOES MADE OF LEATHER AND FABRIC. TRI-PLEX SHOE COMPANY, Philadelphia, Pa. Filed October 11, 1921. Serial No. 154,001. PUBLISHED APRIL 4, 1922.
- 157,226. PLAY FROCKS FOR LITTLE GIRLS. TUBSTUFF COMPANY INCORPORATED, Seattle, Wash. Filed August 2, 1921. Serial No. 151,296. PUBLISHED MARCH 28, 1922.
- 157,227. RUBBER TIRES FOR AUTOMOBILES. THE TUSCAN TIRE & RUBBER COMPANY, Carrollton, Ohio. Filed April 7, 1920. Serial No. 130,762. PUBLISHED FEBRUARY 28, 1922.
- 157,228. THUMB TACKS. TWISTOUT THUMB TACK COMPANY, Germantown, Pa. Filed July 23, 1921. Serial No. 150,882. PUBLISHED APRIL 25, 1922.
- 157,229. GAS ENGINES AND CERTAIN OIL-WELL TOOLS AND EQUIPMENT. UNION TOOL COMPANY, Torrance, Calif. Filed April 11, 1921. Serial No. 146,049. PUBLISHED APRIL 25, 1922.
- 157,230. HOSIERY. UNITED MILLS COMPANY, INCORPORATED, Louisville, Ky. Filed November 6, 1920. Serial No. 139,330. PUBLISHED MARCH 28, 1922.
- 157,231. OVERALLS, OVERALL COATS, OVERALL TROUSERS, OVERALL SUITS, COVERALLS, AND WORK SHIRTS. THE UNITED STATES OVERALL MANUFACTURING COMPANY, Cincinnati, Ohio. Filed July 22, 1921. Serial No. 150,835. PUBLISHED APRIL 4, 1922.
- 157,232. SHEET-RUBBER PATCHES. UNITED STATES SALES CORPORATION, St. Louis, Mo. Filed December 16, 1920. Serial No. 141,198. PUBLISHED DECEMBER 27, 1921.
- 157,233. MERCERIZED AND COTTON YARNS AND ARTIFICIAL AND THROWN SILK. U. S. YARN Co. INC., Brooklyn, N. Y. Filed October 27, 1921. Serial No. 154,674. PUBLISHED JANUARY 31, 1922.
- 157,234. MECHANICALLY-OPERATED BOAT LOWERING AND HOISTING GEAR. GEORGE A. VAUGHAN & Co., Putnam, Conn. Filed November 14, 1921. Serial No. 155,375. PUBLISHED APRIL 25, 1922.
- 157,235. A MEDICINAL SALVE FOR CERTAIN NAMED AILMENTS. VICK CHEMICAL COMPANY, Greensboro, N. C. Filed October 26, 1921. Serial No. 154,627. PUBLISHED MARCH 7, 1922.
- 157,236. SMOKED MEATS, BACON, SMOKED SAUSAGES, CANNED AND DRIED SLICED BEEF, SMOKED FRANKFURTERS, LARD AND SHORTENING, AND SALAD OIL. VIRDEN PACKING COMPANY, San Francisco, Calif. Filed January 12, 1921. Serial No. 142,185. PUBLISHED APRIL 11, 1922.
- 157,237. BOYS' RIBBED HOSE. JOSEPH P. VOORHEES, New York, N. Y. Filed September 8, 1921. Serial No. 152,731. PUBLISHED APRIL 11, 1922.
- 157,238. FRUIT-JAR RINGS. WALKER-MATTESON COMPANY, Joliet, Ill. Filed December 29, 1919. Serial No. 126,602. PUBLISHED FEBRUARY 28, 1922.
- 157,239. CIGARS. WALKER-MATTESON COMPANY, Joliet, Ill. Filed December 29, 1919. Serial No. 126,607. PUBLISHED MAY 31, 1921.
- 157,240. WOMEN'S AND CHILDREN'S ONE, TWO, AND THREE PIECE KNITTED UNDERWEAR, BATHING SUITS, HOSIERY, AND SWEATERS. ARTHUR M. WEBB, New York, N. Y. Filed August 8, 1921. Serial No. 151,567. PUBLISHED APRIL 11, 1922.
- 157,241. COATS, VESTS, TROUSERS, SKIRTS, HATS, AND CAPS MADE FROM LEATHER OR LEATHER PRODUCTS. JENS WEIMANN, Odense, Denmark. Filed May 16, 1921. Serial No. 147,810. PUBLISHED APRIL 11, 1922.
- 157,242. CERTAIN ARTICLES OF CLOTHING AND PROTECTIVE APPAREL. JENS WEIMANN, Odense, Denmark. Filed May 16, 1921. Serial No. 147,811. PUBLISHED APRIL 25, 1922.
- 157,243. TARPAULIN, WAGON COVERS, AND TENTS. H. WENZEL TENT & DUCK COMPANY, St. Louis, Mo. Filed December 31, 1920. Serial No. 141,738. PUBLISHED JANUARY 31, 1922.
- 157,244. BICYCLES AND PARTS THEREOF. WESTFIELD, MANUFACTURING COMPANY, Westfield, Mass. Filed September 1, 1921. Serial No. 152,491. PUBLISHED DECEMBER 27, 1921.
- 157,245. WRITING PAPERS AND MAILING ENVELOPES. WHITING PAPER COMPANY, Holyoke, Mass. Filed January 21, 1922. Serial No. 158,278. PUBLISHED APRIL 25, 1922.
- 157,246. SHOES, SLIPPERS, LADIES' OXFORDS, BOOTS, PUMPS, MADE FROM LEATHER, FABRICS, OR COMBINATIONS OF SUCH MATERIALS. WICHERT & GARDINER, Brooklyn, N. Y. Filed May 31, 1921. Serial No. 148,472. PUBLISHED APRIL 11, 1922.
- 157,247. CANDIES. A. G. WILLIAMS HOME MADE CANDY Co. INC., New Orleans, La. Filed December 17, 1921. Serial No. 156,872. PUBLISHED APRIL 18, 1922.
- 157,248. GAS AND COAL STOVES. WINCROFT STOVE WORKS, Middletown, Pa. Filed April 28, 1921. Serial No. 146,942. PUBLISHED DECEMBER 27, 1921.
- 157,249. HEADLIGHT LENSES. RUSSELL T. WING, St. Cloud, Minn. Filed September 27, 1921. Serial No. 153,423. PUBLISHED DECEMBER 27, 1921.
- 157,250. PUMPING MACHINERY, PUMPS, VACUUM PUMPS, AND AIR AND GAS COMPRESSORS. WORTHINGTON PUMP AND MACHINERY CORPORATION, New York, N. Y. Filed September 26, 1921. Serial No. 153,381. PUBLISHED APRIL 25, 1922.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 25, 1922.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

157,251. (CLASS 39. CLOTHING.) AMERICAN COLLAR Co., Troy, N. Y. Filed Nov. 19, 1921. Serial No. 155,585.

DOUBLE WEAR

Particular description of goods.—Collars, Cuffs, and Shirts.

Claims use since Mar. 10, 1905.

157,252. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ATLAS TACK CORPORATION, Fairhaven, Mass. Filed Mar. 31, 1921. Serial No. 145,492.

WHEN YOU
GET A GOOD
THING,
REMEMBER
WHERE YOU
GOT IT.

Particular description of goods.—Tacks, Nails, and Rivets.

Claims use since on or about Jan. 1, 1914.

157,253. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BAY STATE STAMPING COMPANY, Worcester, Mass. Filed Oct. 24, 1921. Serial No. 154,470.

BENNETT'S

Particular description of goods.—Curtain Fixtures and Curtain Brackets.

Claims use since January, 1900.

157,254. (CLASS 25. LOCKS AND SAFES.) WILSON BOHANNAN, INC., Brooklyn, N. Y. Filed Jan. 7, 1922. Serial No. 157,598.

WELL  BUILT

Particular description of goods.—Locks.

Claims use since Oct. 30, 1920.

157,255. (CLASS 39. CLOTHING.) BONAR-PHELPS COMPANY, New York, N. Y. Filed July 26, 1921. Serial No. 150,955.

BARKHALU

Particular description of goods.—Hats for Men.

Claims use since about December, 1919.

157,256. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JAMES J. BRADLEY, New York, N. Y. Filed Mar. 23, 1922. Serial No. 161,106.

ENGLISH
TUB SOAP

Particular description of goods.—Toilet Soap.

Claims use since about May, 1913.

157,257. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER MARSHALL DAVIS, doing business as The D. S. Co., Coeur d'Alene, Idaho. Filed Oct. 29, 1921. Serial No. 154,728.

DAVIS' STOMACH POWDERS



Particular description of goods.—A Preparation for the Relief of Dyspepsia, Indigestion, Gas, and All Disorders Arising from Indigestion.

Claims use since Jan. 1, 1917.

157,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WESLEY J. GALLOWAY, Sheffield, Ala. Filed Feb. 20, 1922. Serial No. 159,574.

GALLOWAY

Embrocation

Particular description of goods.—A Liquid Preparation for the Treatment of Whooping Cough, Croup, Hoarseness, and Bronchitis.

Claims use since Oct. 10, 1917.

157,259. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. T. GRANT CO., New York, N. Y. Filed Nov. 15, 1921. Serial No. 155,401.

WILLARD SAW COMPANY

Particular description of goods.—Saws.

Claims use since December, 1919.

157,260. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) GUARANTEE LIQUID MEASURE COMPANY, Rochester, Pa. Filed Jan. 5, 1922. Serial No. 157,520.



Particular description of goods.—Liquid-Dispensing Apparatus—Namely, Measuring Pumps for Gasoline and Oil.

Claims use since 1918.

157,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARY HATCHET & JENKINS, Thomasville, Ga. Filed June 11, 1921. Serial No. 149,005.

Mary Hatchet & Jenkins

Particular description of goods.—Preparation Used in the Treatment of Indigestion.

Claims use since 1910.

157,262. (CLASS 39. CLOTHING.) HAUSER & WEIL, New York, N. Y. Filed Feb. 8, 1922. Serial No. 159,035.



Particular description of goods.—Belts for Men, Women, and Children.

Claims use since Nov. 4, 1915.

157,263. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE HESS AND HOPKINS LEATHER COMPANY, Rockford, Ill. Filed Mar. 28, 1922. Serial No. 161,360.

Honest Leather

Particular description of goods.—Packings, Gaskets, and Washers of Leather.

Claims use since Aug. 20, 1912.

157,264. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HOCHSCHILD, KOHN AND CO., INC., Baltimore, Md. Filed July 12, 1921. Serial No. 150,269.

Belmont

Particular description of goods.—Vacuum Cleaning Machines.

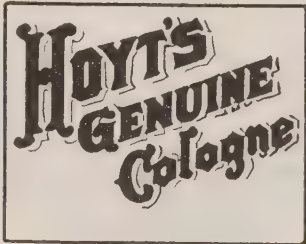
Claims use since May 9, 1921.

157,265. (CLASS 43. BEVERAGES, NONALCOHOLIC.)
F. HOFFMAN & SONS, INC., Newark, N. J. Filed Apr. 14,
1922. Serial No. 162,296.

Hoffman Beverages

Particular description of goods.—Nonalcoholic, Non-
cereal, Maltless Beverages Sold as Soft Drinks and Sirups
for Making the Same.
Claims use since Jan. 1, 1911.

157,266. (CLASS 6. CHEMICALS, MEDICINES, AND
PHARMACEUTICAL PREPARATIONS.) F. HOYT &
Co., Philadelphia, Pa. Filed Jan. 21, 1922. Serial No.
158,235.



Particular description of goods.—Cologne Water.
Claims use since about Apr. 1, 1918.

157,267. (CLASS 22. GAMES, TOYS, AND SPORTING
GOODS.) IROKESE TRADING CORPORATION, New York,
N. Y. Filed May 12, 1921. Serial No. 147,620.

Funny Faces

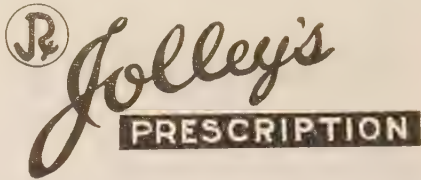
Particular description of goods.—Boxed Sets of Change-
able-Feature Games.
Claims use since Apr. 1, 1921.

157,268. (CLASS 22. GAMES, TOYS, AND SPORTING
GOODS.) IROKESE TRADING CORPORATION, New York,
N. Y. Filed May 12, 1921. Serial No. 147,621.

Funny Fellows

Particular description of goods.—Packaged Set of
Changeable-Feature Folding Cards.
Claims use since Apr. 1, 1921.

157,269. (CLASS 6. CHEMICALS, MEDICINES, AND
PHARMACEUTICAL PREPARATIONS.) I. G. JOLLEY
& SON, Denver, Colo. Filed Nov. 15, 1921. Serial No.
155,406.



Particular description of goods.—Preparation for Treat-
ing Rheumatism and Purifying the Blood.
Claims use since Sept. 18, 1919.

157,270. (CLASS 39. CLOTHING.) A. KEENEY CLARKE,
New York, N. Y. Filed Sept. 3, 1921. Serial No. 152,538.

"VERISTRONG"

Particular description of goods.—Hosiery.
Claims use since 1909.

157,271. (CLASS 39. CLOTHING.) J. K. KRIEG COM-
PANY, New York, N. Y. Filed July 26, 1921. Serial No.
150,966.

SCAFE

Particular description of goods.—Combination Leather
and Rubber Heels for Shoes.
Claims use since 1899.

157,272. (CLASS 32. FURNITURE AND UPHOL-
STERY.) LAPSLEY & BRO. COMPANY, Baltimore, Md.
Filed Mar. 31, 1922. Serial No. 161,557.

KUMPAKT

Particular description of goods.—Window Shade.
Claims use since Dec. 10, 1914.

157,273. (CLASS 6. CHEMICALS, MEDICINES, AND
PHARMACEUTICAL PREPARATIONS.) MEDICO DIS-
TRIBUTING Co., Inc., New York, N. Y. Filed Nov. 27,
1920. Serial No. 140,343.

MEDICO BRAND Elixir

Particular description of goods.—A General Medicinal
Tonic.
Claims use since Nov. 6, 1920.

- 157,274. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NATIONAL BILLIARD CHALK CO., Chicago, Ill. Filed Feb. 16, 1922. Serial No. 159,426.

NATIONAL TOURNAMENT

Particular description of goods.—Billiard Chalks.
Claims use since Jan. 1, 1916.

- 157,275. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) N. O. NELSON MANUFACTURING COMPANY, St. Louis, Mo. Filed Aug. 11, 1921. Serial No. 151,685.

CAN'T SPLIT SEAT

Particular description of goods.—Water-Closet Seats.
Claims use since 1911.

- 157,276. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ORANGE-SMASH CO., Birmingham, Ala. Filed May 13, 1922. Serial No. 163,821.



Particular description of goods.—Nonalcoholic, Maltless, Carbonated Beverage Not of a Cereal Nature Sold as a Soft Drink and Sirup for Same.
Claims use since 1915.

- 157,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHEL PASQUIER, New York, N. Y. Filed Dec. 27, 1921. Serial No. 157,170.

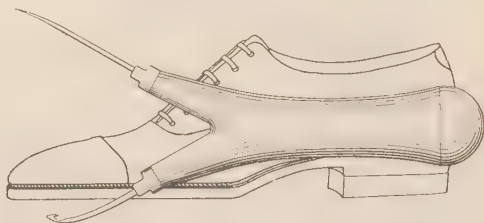


Particular description of goods.—Cold Creams, Face Powders, Eyebrow Pencils, Vanishing Creams, Perfumes,

Toilet Waters, Sachet Powders, Rouges, Lip Sticks, Talcum Powders, Mouth Washes, Shampoo Preparations, Liquid Dressing for the Hair of the Brillantine Type, Massage Creams, Dentifrices, and Pomades.

Claims use since August, 1913.

- 157,278. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WENDEL PASS, Export, Pa. Filed Apr. 1, 1921. Serial No. 145,581.



Particular description of goods.—Combination Awl Tools for Shoemakers and Leather Workers.

Claims use since Feb. 8, 1921.

- 157,279. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RELIANCE DIE AND STAMPING COMPANY, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 143,516.



Particular description of goods.—Punch Presses.
Claims use since Nov. 15, 1920.

- 157,280. (CLASS 39. CLOTHING.) M. SAMUELS & Co., Baltimore, Md. Filed Jan. 20, 1922. Serial No. 158,198.

Newark

Particular description of goods.—Leather, Rubber, and Fibrous Boots, Shoes, and Slippers.
Claims use since January, 1905.

- 157,281. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) VICTOR SARASQUETA, Elbar, Spain. Filed Aug. 16, 1921. Serial No. 151,853.

EDER

Particular description of goods.—Hunting Guns.
Claims use since Jan. 30, 1911.

157,282. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SCRANTON GLASS INSTRUMENT COMPANY, INC., Scranton, Pa. Filed Feb. 23, 1922. Serial No. 159,725.

Kant-Stick

Particular description of goods.—Hydrometer Syringes.
Claims use since Jan. 1, 1921.

157,283. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SIMONS MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 144,164.

BRAKE-JUICE

Particular description of goods.—A Lubricant for Increasing Friction Between Brake Bands and Drums and Upon Belts and the Like.
Claims use since Feb. 19, 1921.

157,284. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SIOUX CANDY CO., Sioux City, Iowa. Filed Jan 3, 1922. Serial No. 157,444.

**BETTER
CANDIES**

Particular description of goods.—Candies.
Claims use since Nov. 28, 1919.

157,285. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE CIVILE DES HERITIERS DE P. BASSET, Tassin la Demi-Lune (Rhône), France. Filed Oct. 11, 1921. Serial No. 153,998.

CACHETS DU DOCTEUR FAIVRE

Particular description of goods.—A General Analgesic and Medicine for Neuralgia, Headache, Toothache, Rheumatism, and Grippe.
Claims use since 1910.

157,286. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOENKSEN-WOLFF-SPIERS COMPANY, INC., Aurora, Ill. Filed Jan. 26, 1921. Serial No. 142,811.

OIL CUSHION TAPPETS

Particular description of goods.—Oil-Cushion Tappets.
Claims use since Nov. 15, 1919.

157,287. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ST. LOUIS PUMP & EQUIPMENT COMPANY, St. Louis, Mo. Filed Feb. 25, 1922. Serial No. 159,821.



Particular description of goods.—Fluid - Measuring Pumps and Meters.
Claims use since Jan. 22, 1921.

157,288. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STANDARD AUTO PARTS CO. OF AMERICA, Newark, N. J. Filed Apr. 22, 1922. Serial No. 162,777.

SIGNALITE

Particular description of goods.—Electric Signal Lamps Particularly Adapted for Use Upon Motor Vehicles.
Claims use since about April, 1920.

157,289. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) STERLING PARTS MFG. CO., Providence, R. I. Filed Apr. 12, 1922. Serial No. 162,210.

STERLING

Particular description of goods.—Oil Gauges.
Claims use since May, 1921.

157,290. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) STERLING TOY WORKS, Sterling, Ill. Filed Mar. 6, 1922. Serial No. 160,265.

TITE-LOK

Particular description of goods.—Stilts.
Claims use since about January, 1921.

157,291. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EDWIN B. STIMPSON COMPANY, Brooklyn, N. Y. Filed Feb. 9, 1921. Serial No. 143,365.

SPLIT RIVETS

Particular description of goods.—Rivets.
Claims use since prior to Dec. 1, 1919.

157,292. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) TREADWELL ENGINEERING COMPANY, Easton, Pa. Filed Oct. 20, 1921. Serial No. 154,392.

TREADWELL

Particular description of goods.—Machinery—Namely, Pipe-Bending Machines, Pipe-Threading Machines, Hoists, Cableways, Rolling Mills, Gear Drives, Rope Drives, Chain Conveyers, Rope Transfers, Roller Tables, Hotbeds, Plate Turnovers, Shears, Rod Mills, and Hydraulic Accumulators.

Claims use since about Feb. 1, 1921.

157,293. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JAMES VERNOR COMPANY, Detroit, Mich. Filed Apr. 25, 1921. Serial No. 146,747.



Particular description of goods.—Ginger Ale and Ginger-Ale Extract.
Claims use since Apr. 14, 1921.

157,294. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM W. WADDELL, Chicago, Ill. Filed Feb. 13, 1922. Serial No. 159,302

WADDELL'S REV MINERAL SOAP

No claim is made to the exclusive right to use the word Soap" apart from the mark as shown on the drawing.

Particular description of goods.—Soap.

Claims use since on or about Dec. 15, 1911.

157,295. (CLASS 39. CLOTHING.) WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed Nov. 18, 1921. Serial No. 155,581.

ATHLETIC

Particular description of goods.—Hosiery.
Claims use since Sept. 1, 1915.

157,296. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) M. J. WHITE, Lees Summit, Mo. Filed Jan. 23, 1922. Serial No. 158,348.

WHITE'S SUPERIOR

Particular description of goods.—Metal-Alloy Compositions—viz. Me al Solder and Aluminum Solder.
Claims use since about Mar. 1, 1920.

157,297. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROBERT L. WILSON, Tyler, Tex. Filed Feb. 20, 1922. Serial No. 159,641.

Robert L. Wilson Good Luck Washing Powder

Particular description of goods.—Washing Powder
Claims use since about June 1, 1910.

LABELS

REGISTERED JULY 25, 1922.

- 24,743.—*Title*: "STRATTON'S LINIMENT." (For Bottles Containing Liniment.) F. P. BARRER and R. K. KIRBY, Brattleboro, Vt. Filed May 20, 1922.
- 24,744.—*Title*: "STAFFNOTE." (For Boxes Containing Player Rolls for Piano Player.) BILLINGS PLAYER ROLL COMPANY, Milwaukee, Wis. Filed January 29, 1921.
- 24,745.—*Title*: "KB HANDY SHOE SHINER CLOTH." (For Paper-Box Container and on Label Affixed to Cloth.) JOSEPH A. CALLAHAN, Lynn, Mass. Filed March 14, 1922.
- 24,746.—*Title*: "CRE-CAL CO." (For Containers of a Solution Decausticated Creosote.) GEORGE McDANIEL CALLAWAY, San Antonio, Tex. Filed June 13, 1922.
- 24,747.—*Title*: "TASTEE." (For Cantaloupes.) ROSARIO DI GIORGIO, Los Angeles, Calif. Filed June 12, 1922.
- 24,748.—*Title*: "BUNGALOW BRAND." (For Salad Dressings.) FRED HALLBERG, Chicago, Ill. Filed July 29, 1921.
- 24,749.—*Title*: "HOME MADE ORANGE MARMALADE." (For Orange Marmalade.) JANE HARTMANN, Boundbrook, N. J. Filed June 14, 1922.
- 24,750.—*Title*: "ZANZIBAR-CARBON CRYSTAL LAUNDRY BLUE." (For Containers Holding Zanzibar-Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) B. HELLER & COMPANY, Chicago, Ill. Filed June 13, 1922.
- 24,751.—*Title*: "ZANZIBAR-CARBON NON-SOUR BLUE." (For Containers Holding Zanzibar Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) B. HELLER & COMPANY, Chicago, Ill. Filed June 13, 1922.
- 24,752.—*Title*: "ZANZIBAR-CARBON COMBINATION LAUNDRY BLUE." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) B. HELLER & COMPANY, Chicago, Ill. Filed June 13, 1922.
- 24,753.—*Title*: "ROGUE RIVER VALLEY FRUIT CRATER LAKE BRAND." (For Packages Containing Fresh Deciduous Fruits.) CLARENCE A. KNIGHT, Medford, Oreg. Filed April 24, 1922.
- 24,754.—*Title*: "RICHMOND MAID." (For Baking Powder.) THE LAIRD MANUFACTURING CO., INC., Richmond, Va. Filed January 11, 1922.
- 24,755.—*Title*: "DEXTRO MALTO NO. 3." (For Infants' Food.) MEAD JOHNSON & Co., Evansville, Ind. Filed June 12, 1922.
- 24,756.—*Title*: "QUEEN." (For Cartons of Japanese Hull-less Popcorn.) NORTHROP, KING & Co., Minneapolis, Minn. Filed June 9, 1922.
- 24,757.—*Title*: "OLD STYLE PUREST & BEST MALT EXTRACT." (For Malt Extracts.) OLD STYLE MALT EXTRACT CO., Chicago, Ill. Filed May 3, 1920.
- 24,758.—*Title*: "LONG BRANCH." (For Saltine Flakes.) PACIFIC COAST BISCUIT COMPANY, Seattle, Wash. Filed June 12, 1922.
- 24,759.—*Title*: "'LA NAPOLETANA'." (For Peeled Tomatoes.) P. PASTENE & Co. INC., Boston, Mass. Filed June 12, 1922.
- 24,760.—*Title*: "CREAM OF BRAN." (For Cereals.) PHOSPHO FOOD CO. INC., Los Angeles, Calif. Filed June 12, 1922.
- 24,761.—*Title*: "CREAM OF BRAN." (For Cereals.) PHOSPHO FOOD CO. INC., Los Angeles, Calif. Filed June 12, 1922.
- 24,762.—*Title*: "BEN-GAY." (For a Medicinal Preparation for Rheumatism, Gout, Neuralgia.) THEODORE SELTZER, West Hoboken, N. J. Filed April 22, 1922.
- 24,763.—*Title*: "KING MIDAS." (For Toasted Wheat Cereal.) SHANE BROS. & WILSON Co., Minneapolis, Minn. Filed April 17, 1922.
- 24,764.—*Title*: "PINELAND." (For Apples.) SPOKANE VALLEY GROWERS UNION, Opportunity, Wash. Filed June 12, 1922.
- 24,765.—*Title*: "HUDSON REFINED PURE LARD." (For Pure Lard.) JOSEPH STERN & SONS' INC., New York, N. Y. Filed May 21, 1921.
- 24,766.—*Title*: "PURE HONEY." (For Honey.) SAMUEL FREDRICK VON SCHUETZ, doing business as the North American Honey Distributors, Council Bluffs, Iowa. Filed April 22, 1922.
- 24,767.—*Title*: "CATARACT BRAND." (For Fresh Fruit.) WESTERN NEW YORK FRUIT GROWERS' CO-OPERATIVE PACKING ASS'N., Rochester, N. Y. Filed June 14, 1922.
- 24,768.—*Title*: "WIDLAR'S GENUINE." (For Mocha and Java Coffee.) THE WIDLAR CO., Cleveland, Ohio. Filed June 12, 1922.
- 24,769.—*Title*: "SOMBRERO." (For Cantaloupes.) WITHERS BROTHERS, Los Angeles, Calif. Filed June 12, 1922.

PRINTS

REGISTERED JULY 25, 1922.

- 6,223.—*Title:* "AMPICO." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 17, 1922.
- 6,224.—*Title:* "CREAM OF WHEAT." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT Co., Minneapolis, Minn. Filed May 8, 1922.
- 6,225.—*Title:* "LITTLE SIMON." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT Co., Minneapolis, Minn. Filed June 12, 1922.
- 6,226.—*Title:* "HEINZ VINEGARS EVERY DROP AWAKENS FLAVOR." (For Advertising Purposes for Heinz Vinegars.) H. J. HEINZ Co., Pittsburgh, Pa. Filed June 15, 1922.
- 6,227.—*Title:* "'THE PIE IN THE PIEVELOPE'," (For Advertising Purposes for Pies.) HOLBROOK PIE BAKING Co., INC., Albany, N. Y. Filed June 14, 1922.
- 6,228.—*Title:* "'THE PIE IN THE PIEVELOPE'." (For Advertising Purposes for Pies.) HOLBROOK PIE BAKING Co., INC., Albany, N. Y. Filed June 14, 1922.
- 6,229.—*Title:* "WHAT IS THE MATTER WITH YOUR HAIR?" (For Advertising Purposes for Shampoo.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed June 10, 1922.
- 6,230.—*Title:* "WHAT IS SHE SAYING?" (For Advertising Purposes for Sealpax Athletic Underwear.) THE SEALPAX Co., Baltimore, Md. Filed May 5, 1922.
- 6,231.—*Title:* "NO HOME COMPLETE WITHOUT A SUM-VIL DRY MOP." (For Advertising Purposes for Mops.) SOMERVILLE BRUSH COMPANY, Somerville, Mass. Filed June 10, 1922.
- 6,232.—*Title:* "UNIVERSITY." (For Advertising Purposes for Cigars.) THE J. C. STOWELL COMPANY, Ithaca, N. Y. Filed November 21, 1921.
- 6,233.—*Title:* "KNITTED OUTERWEAR DESERVES THE PREFERENCE." (For Advertising Purposes for Knitted Outerwear.) SWEATER & KNITTED TEXTILE PUBLICITY BUREAU, INC., Baltimore, Md. Filed August 27, 1921.
- 6,234.—*Title:* "HYPEX." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) WALLACE W. TOMPKINS, Buffalo, N. Y. Filed May 6, 1920.
- 6,235.—*Title:* "VIN-ROU." (For Advertising Purposes for a Fruit Beverage.) WESTERN FRUIT PRODUCTS Co., Dubuque, Iowa. Filed June 12, 1922.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DOWELL v. DOMAN.

No. 1470. Decided April 3, 1922.

1. PATENTS—BURDEN IS ON APPELLANT TO SHOW CONCURRENT CONCLUSIONS OF TRIBUNALS OF PATENT OFFICE WERE WITHOUT SUBSTANTIAL SUPPORT.

Where the three tribunals of Patent Office found against the appellant in interference proceedings, the burden is on him clearly to establish that the Commissioner's conclusion is without substantial basis in the testimony.

2. SAME—STRUCTURE NOT CONTAINING ELEMENT OF ISSUE IN INTERFERENCE HELD NOT REDUCTION TO PRACTICE OF INVENTION.

Where one of the elements of the issue in interference in an air-cooling system for internal-combustion engines was a port connecting a chamber with the intake of the engine to regulate the capacity of the cooling system, a structure built and tested by the junior applicant before the filing date of the senior applicant, which did not have such a port, was not a reduction to practice of the invention in issue.

Mr. William F. Hall for Dowell.

Mr. Howard P. Denison for Doman.

SMYTH, C. J.:

From a decision of the Commissioner of Patents awarding priority to Doman, Dowell brings the case here.

The invention relates to an air cooling system, and is described in a single count, as follows:

The combination of an internal combustion engine, a cooling system therefor, means for varying the capacity of the cooling system, a motor for actuating the capacity varying means, having a chamber connected with the intake of the engine, a port connecting this chamber with the atmosphere, and thermostatic means adapted to close the port, thereby controlling the degree of vacuum in said chamber.

There are two questions in the case: First, was the testimony of Dowell's wife sufficient to corroborate him with respect to the time of his disclosure; and second, was he diligent when Doman came into the field? We find it necessary to answer only the second. Doman is the senior party. He took no testimony, but rested on his filing date, November 28, 1916. The three tribunals of the Office found against Dowell, and therefore the burden is on him to clearly establish that the Commissioner's conclusion is without a substantial basis in the testimony. (*Kennicott v. Caps*, 49 App. D. C.,

187; 271 O. G., 361; 262 Fed., 641; *Ruth v. Groch*, — App. D. C., —; 296 O. G., 839; 279 Fed., 1013, and cases cited therein.)

Assuming, without deciding, that Dowell conceived, as he claims, in the summer of 1916, he did not actually reduce to practice before Doman filed. But to overcome this situation he urges that in an earlier interference it was shown that a structure built and tested by him before Doman filed formed an actual reduction to practice, and that the structure so reduced was an equivalent of the one defined by the claim. The Commissioner pointed out that the claim of the issue calls for a port so located in the device that it may be manipulated so as to govern the vacuum conditions in the motor which actuates the means that regulate the capacity of the cooling system. The device, which it is claimed was reduced to practice by Dowell, did not have such a port, and hence the claimed equivalency of that device and the one of the issue does not exist.

We agree with the Commissioner and affirm his decision.

Affirmed.

Court of Appeals of the District of Columbia.

GRAY v. MCAFEE.

No. 1461. Decided March 6, 1922.

INTERFERENCE—EVIDENCE REVIEWED.

Evidence reviewed and award to McAfee.

Mr. J. Edgar Bull and Mr. R. J. Dearborn for Gray.

Mr. Alfred M. Houghton and Mr. Melville Church for McAfee.

SMYTH, C. J.:

From a decision of the Commissioner of Patents in an interference proceeding, Gray appeals. The contest is between an application of McAfee and patents to Gray issued while McAfee's application was pending. The subject matter of the interference relates to the conversion of high-boiling petroleum hydrocarbons into lower-boiling petroleum hydrocarbons under certain conditions. There are eight counts of the issue, of which 1 and 6 are examples.

1. The process of converting hydrocarbons having higher-boiling points into naphtha, which consists in heating said hydrocarbons in the presence of anhydrous aluminum chloride to a temperature producing vapor having a temperature not substantially above the end-boiling point of naphtha and maintaining them at such temperature.

6. The process of converting hydrocarbons having higher-boiling points into naphtha, which consists in heating said

hydrocarbons in the presence of anhydrous aluminum chloride to a temperature producing vapor having a temperature above the end-boiling point of naphtha, but below the end-boiling point of illuminating oil, condensing the illuminating oil driven off in a preliminary cooling chamber, returning said oil to the still to be further acted on whereby higher-boiling oil is converted into naphtha and conducting the naphtha driven off to a condenser.

Gray was successful before the Examiner of Interferences, but lost on appeal to the Examiners in Chief, whose decision was affirmed by the Commissioner. It is agreed by the three tribunals that the essence of the invention lies in a proper temperature control in the vapor line, and that the present process converts substantially all the higher-boiling hydrocarbons into any desired specific lower-boiling hydrocarbon, such, for example, as gasoline.

Gray and McAfee are highly-trained chemists, and were employed by The Texas Company, which was engaged in producing and refining petroleum products. Gray says in his preliminary statement that he conceived and disclosed the invention as "early as November 5, 1912." He does not claim that he personally reduced it to practice, but asserts that what McAfee did in perfecting the process was done in accordance with a general plan disclosed by him to McAfee. From this it appears that the question to be solved is one of originality. Whether or not Gray should prevail must be determined by the consideration of a letter sent by him to McAfee on November 5, 1912. By that letter, he says, he disclosed to McAfee. No claim of a later disclosure is put forward by him. If, then, the letter did not disclose the invention Gray can not succeed.

The Examiner of Interferences found that it did, but, as we have said, the Examiners in Chief and the Commissioner held otherwise. With great thoroughness the Examiners in Chief analyzed the letter, and compared its disclosures with the claims of the issue. We do not think it necessary to do much more than follow in substance their opinion.

Gray wrote to McAfee on October 29, 1912, giving directions with respect to certain experiments which he desired him to carry out. He said that McAfee was evidently posted on all the literature relating to the subject, and that if he went ahead he would "probably accomplish something." McAfee responded, making some suggestions, part of which did not meet with Gray's approval. The latter then wrote the letter of November 5, in which he advised that McAfee take some tar or residuum from Oklahoma crude and place it in a small experimental still, but gave no intimation that aluminum chloride, or any other catalyst, should be mixed with it. He recommended that the vapor line be so placed that the vapor would have to pass up through probably eight or ten feet of pipe before reaching the condenser, and that the oil in the still be held at a temperature of 625 to 675° F. He thought that, if his suggestion was followed, it would produce cracking, and that the product passing over through the vapor line would be light hydrocarbon having a gravity lighter than 50° Baumé. He further said that the pipe should slope upward, so that nothing which condensed in it would reach the condenser, but would return to the still. The still, according to him, was to be held at the temperature specified for at least forty-eight hours, and, if this was done, he said, the distillate thrown over would contain a very large percentage of cracker products, which should be hydrogenized very rapidly. The plan thus outlined by Gray is nothing more than a cracking process to be followed by hydrogenization. This is emphasized by his further statement that,

the distillates can probably be hydrogenized by passing a catalyzing agent in that part of the vapor line furthest from the fire, keeping this part of the line at a temperature of probably 350 degrees F.

This is all upon which he bases a disclosure of that feature of the invention which requires the maintenance in the vapor line of a temperature not substantially above the end-boiling point of naphtha. But we do not think it is open to such an interpretation. What he writes about is hydrogenization, and if the specific temperature mentioned has any significance it can only be in connection with the process of producing a hydrogenized product which is not the matter in issue here.

It should also be borne in mind that Gray is not discussing a process in which a catalyst is mixed with the oil in the still, for he specifically states that the catalyzing agent should be placed in that part of the vapor line furthest from the fire. He does not suggest a temperature below 350° F., higher for the purpose of preventing the catalyst from passing over to the condenser with the light hydrocarbons or for the purpose of allowing the naphtha products to pass over while the higher-boiling products condense and flow back to the still. Nor does he advise the use of aluminum chloride as a catalyzing agent. As just noted, he does not direct that the catalyst shall be mixed with the oil in the still. Gray attempts to explain this by saying that any one skilled in the art of refining oil, as McAfee was, would know that if aluminum chloride was to be employed as a catalyst, it should be placed in the still. But he, Gray, directs that the catalyzing agent should be placed at a point in the vapor line furthest from the fire. However, it is clear that Gray's letter does not mention the substance aluminum chloride, called for by all of the interference counts, and is specific to a mode of procedure different from that of the issue and involving the use of a catalyst other than that employed in the process in issue.

After stating that the process should be continued forty-eight to sixty hours, with a constant temperature, the letter concludes by saying:

You will thus obtain some cracked distillates which will give you an idea of what they look like, how they smell, how they react with sulphuric acid, and when you receive your materials you will know better what is taking place.

The products mentioned in this quotation appear to be what would be produced by the treatment of heavy oils in the absence of a catalyzing agent. Finally, this letter discloses nothing in such detail as would enable McAfee to work out the process of the issue without invention.

Admittedly the invention was reduced to practice by McAfee during the month of December, 1912, and there is evidence that Gray saw demonstration of it on or about the 22d of that month. Prior to that Gray had been informed over the telephone by McAfee of a successful test of the invention which occurred about December 11 or 12. Gray does not deny this, but, as we have said, claims that what McAfee did by way of reducing it to practice injured to his benefit. In other words, he relies upon McAfee's reduction to practice had about the 11th or 12th of December.

Now happens a very significant thing: On January 23, 1913, a little over a month after McAfee's reduction to practice, Gray filed two applications for patents on this subject matter, yet he does not say one word in either about vapor control, which, as we have remarked, is conceded to be the essence of the invention. On the contrary, he describes therein the mixture of gas, oil, and anhydrous aluminum chloride in the still. In one he states that the mixture is heated to a temperature not substantially above 325 to 350° F., and in the other, not substantially above the end-boiling point of naphtha. Thus the applications remained until January 22, 1915, nearly two years, when they were amended to aver a control of vapor temperature. If Gray had the invention on the 5th of November, it seems

incredible that he would not have embodied in his applications the idea of temperature control of the vapors in the vapor line. We do not think he possessed it at that time. He knew what he wanted, but did not know how to get it. McAfee, independently of him, conceived and reduced to practice the process by which to achieve the desired end, and is entitled to priority.

The decision of the Commissioner of Patents was right, and it is affirmed.

Affirmed.

VAN ORSDEL, J. (dissenting):

I am unable to agree with my associates in the conclusions reached in this case.

All the apparatus used by McAfee in conducting his successful experiments, as well as that shown in his application, were constructed and operated essentially as described in Gray's letter of November 5th. A careful reading of this letter, in the light of the conversations and correspondence preceding it, demonstrates that Gray had a clear conception of the means of accomplishing the result. Much is attempted to be made of a sentence of the letter to the effect that—

the distillates can probably be hydrogenized by passing a catalyzing agent in that part of the vapor line furthest from the fire.

If Gray had added the injunction that when aluminum chloride is used as a catalyst it should be mixed with the oil in the still instead of placed in the vapor line, a fact concededly known to both at the time the letter was written, his disclosure would have been complete. But Gray had not in mind any particular catalyzing agent, since by his direction, a number had been ordered by McAfee with which experiments were to be made.

It must be remembered that the breaking of oil, was old in the art as well as the making of gasoline by condensation. The whole invention here was to construct an apparatus in which condensation would take place at a point productive of the largest percentage of gasoline. In other words, locating a condensation point sufficiently distant from the fire that the temperature would be 350 degrees. Such an apparatus was described in Gray's letter of November 5th. It is the apparatus shown as Gray's Exhibit "A" sketched by McAfee on the witness stand. It shows a reflux or air-cooled condenser with a thermometer located at the top of the condenser to maintain a constant temperature of 350 degrees, all as described in Gray's letter. This is the apparatus shown in Gray's patents in interference, as the applications were originally filed.

McAfee, a learned chemist, but with little or no knowledge of treating oils, was working under the supervision and direction of Gray. All information which he possessed on the subject he had derived in conversation or by correspondence with Gray. Gray in his letter of November 5th, described the apparatus to be used in accomplishing the desired result and advised McAfee as to the method of experimenting with it. It, therefore, results that anything derived from those experiments is the invention of Gray, and not McAfee.

The Examiner of Interferences after a thorough analysis of the testimony, reached a conclusion which in my opinion epitomizes this case.

From the evidence submitted it is concluded that during the time when the invention in controversy was developed, McAfee was under the immediate supervision of Gray and was responsible to him directly; that Gray disclosed the plan of the invention to McAfee; that what McAfee did in developing the said process was no more than the duty of his position required of him, and was in accordance with the plan outlined and suggested to him by Gray; and that what McAfee did under those conditions inures to Gray under the well established principle of law enumerated and reiterated in the decisions indicated above. (Citing a number of decisions from this court.)

Whatever mistakes Gray may have made in filing his applications are beside the case since McAfee was not an original inventor, and, therefore, in no position to profit by Gray's mistakes. Gray, therefore, should be awarded priority.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mo.) The Ballman patent, No. 1,239,249, for improvement in rectifiers of alternating current, not infringed. *Fore Electrical Mfg. Co. v. St. Louis Electrical Works*, 280 Fed. Rep., 49.

(U. S. C. C. A. Mo.) The Eberle patent, No. 1,304,951, for swing, *Held* anticipated. *Eberle v. Stix, Baer & Fuller Dry Goods Co.*, 280 Fed. Rep., 117.

(U. S. C. C. A. Ill.) The Fulton patent, No. 907,770, for electric-light switch, *Held* not to disclose invention. *Jessurun v. Peerless Light Co.*, 280 Fed. Rep., 113.

(U. S. C. C. A. Mo.) The Girtanner patent, No. 986,455, claims 1 to 3, for furnace arch, *Held* anticipated. *Laclede-Christy Clay Products Co. v. City of St. Louis*, 280 Fed. Rep., 83.

(U. S. D. C. Mich.) The Jay patent, No. 1,132,273, claims 9 and 14, for vacuum-feed tank for automobiles, *Held* valid and infringed. *Jay v. Ireland & Matthews Mfg. Co.*, 280 Fed. Rep., 166.

(U. S. C. C. A. N. J.) The Schroder patent, No. 1,007,146, for prepared roofing, *Held* anticipated. *Staso Laminated Slate Co. v. Stowell Mfg. Co.*, 280 Fed. Rep., 107.

Adverse Decisions in Interference.

PATENT NO. 1,277,178.

On June 14, 1922, a decision was rendered that Charles F. Bernhard and Harry I. Bernhard were not the first inventors of the subject matter covered by claims 1, 2, and 3 of their Patent No. 1,277,178, subject, "Lubricating systems for internal-combustion engines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,377,225.

On June 20, 1922, a decision was rendered that Arthur J. Seymour was not the first inventor of the subject matter covered by claim 8 of his Patent No. 1,377,225, subject, "Semiautomatic telephone system," and no appeal having been taken within the time allowed such decision has become final.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 26, 1922.

Paragon Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of the Pabst Corporation, Milwaukee, Wis., the Decatur Brewing Co., 604 Cantrell Street, Decatur, Ill., and the Pabst Brewing Company, 917 Chestnut Street, Milwaukee, Wis., for registrations of trade-marks and trade-mark registered March 5, 1907, No. 61,117, to the Paragon Malt Extract Co., 3553 Third Avenue, New York, N. Y., and a notice of such declaration sent by registered mail to the said Paragon Malt Extract Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paragon Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

The Rhubaral Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The William S. Merrell Company, of Fifth and Pike Streets, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered June 2, 1914, No. 97,440, to The Rhubaral Company, of 1151 Market Street, Wheeling, W. Va., and a notice of such declaration sent by registered mail to said The Rhubaral Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said The Rhubaral Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

Andrew H. Hanford, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Eureka Metal Polish Co. (Inc.), of 1638 North Fairfield Avenue, Chicago, Ill., for registration of a trade-mark and trade-mark registered December 26, 1911, No. 84,627, to Andrew H. Hanford, of 30 Burling Slip, New York, N. Y., and a notice of such declaration sent by registered mail to said Andrew H. Hanford at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Andrew H. Hanford, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1922.

George Schneibel, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Don F. Lauro, of 289 Washington Street, New York, N. Y., for registration of a trade-mark and trade-mark registered September 17, 1901, No. 37,077, to George Schneibel, of 748 South High Street, Columbus, Ohio, and a notice of such declaration sent by registered mail to said George Schneibel at the said address having been returned by the post office undeliverable, notice is hereby given that unless said George Schneibel, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 8, 1922.

The Diastatic Malt Extract Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Dimex Malt Extract Co., Inc., 71 Reservoir Avenue, Port Jervis, N. Y., for registration of a trade-mark and trade-mark registered October 20, 1914, No. 100,523, to the Diastatic Malt Extract Co., Room 1006, Hearst Building, Chicago, Ill., and a notice of such declaration sent by registered mail to said Diastatic Malt Extract Co., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Diastatic Malt Extract Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 11, 1922.

The I. C. Hunsicker & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Pittsburgh Dry Goods Company, No. 935 Penn Avenue, Pittsburgh, Pa., for registration of a trade-mark and trade-mark registered January 17, 1893, No. 22,342, to The I. C. Hunsicker & Co., Fourth and Washington Streets, Reading, Pa., and a notice of such declaration sent by registered mail to said I. C. Hunsicker & Co. at the said address having been returned by the post office undeliverable, notice is hereby given that unless said I. C. Hunsicker & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 12, 1922.

Rainbow Ale Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of The Keystone Fruit Products Company, of 106 West Second Street, Cincinnati, Ohio, for registration of a trade-mark and trade-mark registered February 26, 1907, No. 60,913, to the Rainbow Ale Company, of 34 Madison Avenue, Atlanta, Ga., and a notice of such declaration sent by registered mail to said Rainbow Ale Company at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Rainbow Ale Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 13, 1922.

Monte W. Burd, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Marshall Field & Company, of 219 West Adams Street, Chicago, Ill., and Hunter Mfg. & Com. Co., of 58 Worth Street, New York, N. Y., for registration of certain trade-marks and trade-marks registered March 20, 1906, No. 50,537, and February 14, 1905, No. 44,166, to Monte W. Burd, of 631 West Main Street, Louisville, Ky., and a notice of such declaration sent by registered mail to said Monte W. Burd at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Monte W. Burd, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C. July 13, 1922.

Harry Pennington, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of William F. Huff, 1445 West 25th Street, Los Angeles, Calif., for patent and the application of Harry Pennington, 614 Ninth Street, Wichita Falls, Tex., for patent, and a notice of such declaration sent by registered mail to Pennington at his last address of record, 3640 Stratford Avenue, Highland Park, Dallas, Tex., having been returned by the post office undeliverable, notice is hereby given that unless said Pennington, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
Acting Commissioner.

ALPHABETICAL LIST OF PATENTEEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Abele, Joseph B., Philadelphia, Pa. Game. No. 1,421,656; July 4.
- Abrams, John M., Brooklyn, N. Y. Screw cap. No. 1,421,885; July 4.
- Acland, Edward H., Toronto, Ontario, Canada. Guard for billiard-table pockets. No. 1,421,361; July 4.
- Advance Rumely Company. (See Ross, James, assignor.)
- Aeolian Company, The. (See Collyer, Louis G., assignor.)
- Aktiebolaget Svenska Kullagerfabriken. (See Olsson, Nils J., assignor.)
- Aldrich, Alonzo, and A. L. Larson, Beloit, Wis.; said Larson assignor to said Aldrich. Paper-making machine. No. 1,421,752; July 4.
- Aldrich, Alonzo, Beloit, Wis. Paper-making machine. No. 1,421,753; July 4.
- Aldrich, Alonzo, Beloit, Wis. Paper-making machine. No. 1,421,754; July 4.
- Allan, Alexander, Middletown, R. I. Method of and apparatus for raising sunken ships. No. 1,421,887; July 4.
- Allan, Hugh L., Ayr, Scotland. Fractionating apparatus. No. 1,421,886; July 4.
- Allan, Percy, Montclair, N. J., assignor to A. B. Sands & Son Co., New York, N. Y. Marine closet. No. 1,421,362; July 4.
- Aldrege, Francis B., Des Moines, Iowa. Bailer structure. No. 1,421,363; July 4.
- Allen, Alfred, Birmingham, England. Pencil and pen clip. No. 1,421,657; July 4.
- Allen, Carlton H., assignor of one-half to Great Northern Paper Company, Millinocket, Me. Pulp-thickening machine. No. 1,421,364; July 4.
- Allen, William H., Detroit, Mich. Weatherproofing clay. No. 1,421,888; July 4.
- Allwork, Robert H., New York, N. Y. Flat-top roll-cover dock. No. 1,421,357; July 4.
- Aluminum Company of America. (See Sherwin, Ralph S., assignor.)
- American Hardware Corporation, The. (See Hurd, Norman B., assignor.)
- American Optical Company. (See Schumacher, Elmer L., assignor.)
- American Telephone and Telegraph Company. (See McCurdy, Ralph G., assignor.)
- Anderson, E. D., Inc. (See Elder, Earl B., assignor.)
- Anderson, Ivan, East, Elmhurst, N. Y. Liquid-level gauge. No. 1,421,365; July 4.
- Anderson, Peter F., assignor of one-half to P. S. Lound, Prentice, Wis. Wrench. No. 1,421,366; July 4.
- Anderson, Ulrich, Wausau, Wis. Cushion tire and rim therefor. No. 1,421,755; July 4.
- Anderson, William J., Hyde, England. Showcard, calendar and the like. No. 1,421,367; July 4.
- Anthony, George H., Sykesville, Pa. Dirigible head-light for locomotives. No. 1,421,368; July 4.
- Apollo Magneto Corporation. (See Fuegel, G., and Schmid, assignors.)
- Arcadia Trailer Corporation. (See Collier, Joseph W., assignor.)
- Ardo, Joseph, Newhall, W. Va., assignor of one-half to Kalman Horvath, Newhall, W. Va. Submersible flying boat. No. 1,421,369; July 4.
- Arnao, Charles, Brooklyn, N. Y. Massage apparatus. No. 1,421,756; July 4.
- A/S Labrador. (See Mejdell, Thor, assignor.)
- Ashworth, Thomas, Millersburg, Ohio. Bench and floor clamp. No. 1,421,370; July 4.
- Attaway, Sidney C., Thomasville, Ga. Disk plow. No. 1,421,371; July 4.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co. Inc., New York, N. Y. Gripper mechanism for envelope-making machines. No. 1,421,889; July 4.
- Austin, Frederick C. (See Bager, Frederic E., assignor.)
- Austin, Frederick C. (See Benton, Hans J., assignor.)
- Auto Sales and Service Company. (See Penrod, William F., assignor.)
- Avery, Thomas J., Albion, Iowa. Combination scraper, charger, and tamper. No. 1,421,358; July 4.
- Backhaus, Arthur A. (See Whitaker, M. C., and Backhaus.)
- Bacon, Raymond F. (See Davis, H. S., and Bacon.)
- Badger, Le Roy H., Oak Park, Ill., assignor to De Remer Blatchford Company, Chicago, Ill. Ladder construction. No. 1,421,372; July 4.
- Bager, Frederic E., Kanosha, Wis., assignor to Frederick C. Austin, Chicago, Ill. Liquid-distributor discharge mechanism. No. 1,421,373; July 4.
- Bagnell, Robert A., St. Louis, Mo. Trough. No. 1,421,374; July 4.
- Baines Engineering Company, The. (See Baines, Henry C., assignor.)
- Baines, Henry C., East Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Transmission. No. 1,421,375; July 4.
- Baker, George W., Jacksonville, Fla. Self-leveling stove for ships. No. 1,421,890; July 4.
- Baker, Howard H., assignor to United States Fuse Corporation, Buffalo, N. Y. Fuse. No. 1,421,376; July 4.
- Baker, Joseph, and Sons Limited. (See Prescott, William E., assignor.)
- Baker, Newton D., Secretary of War. (See Milligan, Lowell H., assignor.)
- Ball, John P., Chicago, Ill. Sewage purifier. No. 1,421,891; July 4.
- Bauer, Carl O., San Francisco, Calif. Rotary steam engine. No. 1,421,892; July 4.
- Barber Asphalt Company, The. (See Browne, Frank A., assignor.)
- Barr, Stevenson E., Tacoma, Wash. Combined thimble and stovepipe holder. No. 1,421,359; July 4.
- Barry Company. (See Barry, Thomas F., assignor.)
- Barry, Thomas F., assignor to Barry Company, Muscatine, Iowa. Split loose pulley bushing. No. 1,421,377; July 4.
- Barta, Otto, New York, N. Y. Sterilizer for instruments and dressings. No. 1,421,893; July 4.
- Barth, Karl, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,421,378; July 4.
- Bartlett, Samuel O., New York, N. Y. Calendar. No. 1,421,379; July 4.
- Bastin, L. A., et al. (See Hull, Horace, assignor.)
- Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Power transmission and electric braking. No. 1,421,894; July 4.
- Bateman, Arthur R., Lynchburg, Va. Aligning instrument for crosshead guide bars. No. 1,421,895; July 4.
- Bateman, William H., London, England. Separator employed for the separation of liquids of different density. No. 1,421,658; July 4.
- Bauer, John G. (See Roeling, H. W., Williams, and Bauer.)
- Baum, Henry, East Cleveland, Ohio. Scraper. No. 1,421,380; July 4.
- Baum, J. Safe & Lock Company. (See Freyberg, J., and Wubbolding, assignors.)
- Bawtree, Alfred E., Sutton, assignor of one-half to A. S. Legg, Thornton Heath, England. Means for regulating the flow of compressed gases. No. 1,421,381; July 4.
- Beard, Richard M., New York, N. Y. Electric-light fixture. No. 1,421,382; July 4.
- Beardsley, Elmer O., Chicago, and W. F. Piper, Oak Park, Ill. Sand gathering and elevating machine. No. 1,421,383; July 4.
- Beat, John, et al. (See Chladek, Joseph C., assignor.)
- Beat, Roy A., et al. (See Chladek, Joseph C., assignor.)
- Beatty, Henry B., Brooklyn, and C. L. Johnson, New York, assignors to Laplante & Dunklin Printing Company, New York, N. Y. Display container. No. 1,421,384; July 4.
- Beecken, Charles, New York, N. Y. Rope clamp. No. 1,421,385; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,421,758; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension. No. 1,421,759; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,421,760; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Power-transmitting mechanism. No. 1,421,761; July 4.
- Bell, John E., Brooklyn, N. Y. Utilizing waste heat gases of cement kilns. No. 1,421,386; July 4.
- Benedict, John W., Grand Ledge, Mich. Flour feeder. No. 1,421,896; July 4.

- Beneke & Knapf Manufacturing Company. (See Rayfield, Charles L., assignor.)
- Benoit, Joseph F., Sanford, Me. Wire motion for looms. No. 1,421,897; July 4.
- Bentley, C. M., et al. (See Schaefer, Frank M., assignor.)
- Bentson, Hans J., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Self-shifting track. No. 1,421,387; July 4.
- Bergman, Lars H., Chicago, Ill. Pulverized-fuel furnace. No. 1,421,898; July 4.
- Bianchi, y Reche, Fernando, Madrid, Spain. Office desk. No. 1,421,564; July 4.
- Biery, Harvey V., Oklahoma, Okla. Rotary photogravure press. No. 1,421,360; July 4.
- Bingay, Robert V., Pittsburgh, Pa., assignor to Pittsburgh Transformer Company. Transformer. No. 1,421,899; July 4.
- Becker, Walter S., assignor to Little Falls Fibre Company, Little Falls, N. Y. Lapping machine. No. 1,421,659; July 4.
- Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Motor vehicle. No. 1,421,757; July 4.
- Bippart, Achill, East Orange, N. J. Jewelry coupling. No. 1,421,388; July 4.
- Birket, William E., Peoria, Ill. Sound recording and reproducing machine. No. 1,422,022; July 4.
- Bischof, Bernhard, Geneva, Switzerland. Device for preventing the penetration of air into centrifugal pumps. No. 1,421,389; July 4.
- Blackburn, Thomas B., et al. (See Sykes, George, assignor.)
- Blake, Eli J., Buffalo, N. Y., assignor to Gould Coupler Company. Governor. No. 1,421,660; July 4.
- Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. Train-control system. No. 1,421,762; July 4.
- Blangey, Louis. (See Römer, A., and Blangey.)
- Boe, Edd, assignor of one-fourth to I. D. Kretser, Clearbrook, Minn., one-fourth to D. W. McNabb, Winnipeg, Canada, and one-fourth to E. A. Halsey, Clearbrook, Minn. Thrashing machine. No. 1,422,023; July 4.
- Bogdanoff, Paul G., Battle Creek, Mich. Split lubricating bearing for shafts, etc. No. 1,421,661; July 4.
- Bosque, José V., and P. Giró y Casañas, Habana, Cuba. Speed-indicating device. No. 1,421,390; July 4.
- Bossert, Charles P., assignor to Pfister & Vogel Leather Co., Milwaukee, Wis. Machine for treating hides and skins. No. 1,421,662; July 4.
- Boureau, Désiré V., Detroit, Mich. Snubber. No. 1,421,900; July 4.
- Bower, Chester A., Castor, Alberta, Canada. Display rack for phonograph disks. No. 1,421,391; July 4.
- Bowler, Frank W., Chicago, Ill. Combination comb case. No. 1,421,392; July 4.
- Bowman, A. M. (See Sturm, E. J., and Surnson, assignors.)
- Boyd, James S., Spray, N. C. Register. No. 1,422,024; July 4.
- Boykin, Herbert C. (See Ritchie, O. N., and Boykin.)
- Boyle, Louis M., Los Angeles, Calif. Camp stove. No. 1,421,393; July 4.
- Boyls, Cecil H., Louisville, Ky. Shirt bosom and body machine. (Reissue.) No. 15,395; July 4.
- Brackney, William S., Elizabethton, Tenn. Film holder. No. 1,422,029; July 4.
- Breuker & Kessler Company. (See Kessler, Harry C., assignor.)
- Broel, Louis G., Leichardt, near Sydney, New South Wales, Australia. Handling kapok. No. 1,421,663; July 4.
- Brogden, Alvey L., Abbeville, S. C. Dirigible headlight. No. 1,420,025; July 4.
- Brothers, Eli, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. No. 1,421,394; July 4.
- Brotsch, Frederick A., Jr., Rochester, N. Y. Pavement. No. 1,421,901; July 4.
- Brown, Charles S., Bethel, Me. Feed wheel for spool machines. No. 1,421,395; July 4.
- Brown Company. (See Brown, O. B., Moore, Parker, and Martinson, assignors.)
- Brown, George R., Bondi, near Sydney, New South Wales, Australia, assignor to Electrostatic Separation Company, Limited, Sydney, New South Wales, Australia. Process and apparatus for electrostatic separation of finely-divided discrete material. No. 1,422,026; July 4.
- Brown, John. (See Myer, B., and Brown.)
- Brown, John H., Spavinaw Creek, Okla. Heating system. No. 1,421,902; July 4.
- Brown, Orton B., H. K. Moore, and H. Parker, Berlin, N. H., and H. M. Martinson, La Tuque, Quebec, Canada, assignors to Brown Company, Portland, Me. Method of and apparatus for washing pulp. No. 1,421,664; July 4.
- Brown, Robert J., assignor of one-half to J. F. Walden, Merryville, La. Oil-well drill bit. No. 1,421,396; July 4.
- Browne, Frank A., Buffalo, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Tandem roller. No. 1,421,665; July 4.
- Bruck, William A., Pearl River, N. Y. Fowl cleaner. No. 1,421,397; July 4.
- Bryant Electric Company, The. (See Goodridge, Gilbert W., assignor.)
- Bryon, William J., New York, N. Y. Door closer and check. No. 1,421,666; July 4.
- Buberl, Carl, Detroit, Mich. Apparatus for indicating porosity. No. 1,421,903; July 4.
- Bucher, William W., Chicago, Ill., assignor, by mesne assignments, to Kohler Company, Kohler, Wis. Automatic electric generating unit. No. 1,422,027; July 4.
- Buckham, George T. (See Dawson, A. T., and Buckham.)
- Budd, Edward G., assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Making wheel disks. No. 1,421,667; July 4.
- Budd Wheel Company. (See Budd, Edward G., assignor.)
- Buedingen, William L., Milwaukee, Wis. Box-tray support. No. 1,422,028; July 4.
- Buehle, Erich, San Francisco, and E. C. Hutchinson, Oakland, assignors to Pelton Water Wheel Co., San Francisco, Calif. Safety control for hydraulic pipe lines. No. 1,421,904; July 4.
- Burchess, Charles L., assignor of one-half to H. M. Dirks, Lincoln, Nebr. Christmas-tree support. No. 1,421,398; July 4.
- Burgess Battery Company. (See Burgess, Charles F., assignor.)
- Burgess, Charles F., assignor to Burgess Battery Company, Madison, Wis. Battery handlamp. No. 1,421,399; July 4.
- Burns, Frank L., Three Rivers, Mich. Vehicle top curtain. No. 1,421,400; July 4.
- Burnstine, Abraham, Washington, D. C. Second-hand-setting mechanism for watches. No. 1,421,668; July 4.
- Busse, Edwin G. (See Williams, C. H., and Busse.)
- Byers, Benjamin O., assignor of one-half to W. St. John, Cleveland, Ohio. Auto lock. No. 1,421,401; July 4.
- Cade, Enos B., Portland, Oreg. Meter. No. 1,421,905; July 4.
- Cadman, Addi B., Beloit, assignor to Warner Manufacturing Company, South Beloit, Wis. Trailer truck. No. 1,421,402; July 4.
- Caldwell, Warren A., Oskaloosa, Iowa. Grain crib. No. 1,421,763; July 4.
- Calef, Heman A., Portland, Oreg. Comforter or wadded quilt. No. 1,421,906; July 4.
- Calhoun, John W., Chester, Pa. Meter-box cover. No. 1,421,669; July 4.
- Callais, Julian C., St. Louis, Mo. Amusement device. No. 1,421,907; July 4.
- Campbell, Charles S., New Haven, and W. H. Day, East Haven, assignors to Index Visible, Inc., New Haven, Conn. Index or file. No. 1,421,670; July 4.
- Campbell, Sarah W. (See Linden, Alfred R., assignor.)
- Caps, Arthur W. (See Hawley, J. E., and Caps.)
- Capstan Glass Company. (See Kucera, Pater, assignor.)
- Carlson, Gustaf, assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Switchboard signal. No. 1,421,403; July 4.
- Carmichael, Duncan, Ancoats, Manchester, England. Acetylene-gas-lighting plant. No. 1,422,030; July 4.
- Cartier, Charles E., et al. (See Putney, William W., assignor.)
- Cattoi, Louis C., Hurley, Wis. Gearless transmission mechanism. No. 1,421,908; July 4.
- Caulkins, Theodore P., assignor to E. T. Wray, Chicago, Ill. Drilling machine. No. 1,422,031; July 4.
- Chambers, Charles E., Wichita, Kans. Milk skimmer. No. 1,421,909; July 4.
- Chapman, Frank, Brooklyn, N. Y. Amusement device. No. 1,422,032; July 4.
- Chemical Construction Company. (See Hechenbleikner, L., and Oliver, assignors.)
- Chemical Foundation, Inc., The. (See Goldschmidt, H., and Müller, assignors.)
- Chemical Foundation, Inc., The. (See Lobeck, Oskar, assignor.)
- Chemical Foundation, Inc., The. (See Löw-Beer, Oscar, assignor.)
- Chemical Foundation, Inc., The. (See Minck, Paul H., assignor.)
- Chemical Foundation, Inc., The. (See Röhm, Otto, assignor.)
- Chemical Foundation, Inc., The. (See Römer, A., and Blangey, assignors.)
- Chemical Foundation, Inc., The. (See Stuer, B. C., and Grob, assignors.)
- Cheney, Forest, assignor to Cheney Talking Machine Company, Chicago, Ill. Motor for talking machines. No. 1,421,404; July 4.
- Cheney Talking Machine Company. (See Cheney, Forest, assignor.)
- Chernikeeff, Basil, London, England. Ship's log. No. 1,421,405; July 4.
- Chester Machine Co. (See Augustine, Addison E., assignor.)
- Chicago Automatic Conveyor Co. (See Shaw, Arthur L., assignor.)
- Chicago Railway Equipment Company. (See Williams, C. H., and Busse, assignors.)
- Chladek, Joseph C., assignor of one-fourth to R. A. Beat and one-fourth to J. Beat, Mount Horeb, Wis. Dual rotary snowplow. No. 1,421,671; July 4.
- Christmas, Allen J., Rayville, La. Lamp. No. 1,421,406; July 4.
- Cichon, Max, assignor to V. M. Cichon, Chicago, Ill. Emergency brake, antikidding, and antitheft device. No. 1,421,910; July 4.
- Cichon, Virginia M. (See Cichon, Max, assignor.)

- Clark, Warren H., West Burlington, N. Y. Ball. No. 1,421,407; July 4.
- Clarke, William E., Buffalo, N. Y. Deep-sea sounder. No. 1,421,672; July 4.
- Claus, Emil L., Milwaukee, Wis. Gas cock and jet plug therefor. No. 1,422,033; July 4.
- Clymer, Earl H. (See Dinning, T. W., and Clymer.)
- Coates, Frederick, assignor to Federal Products Company, Cincinnati, Ohio. Can-capping tool. No. 1,421,673; July 4.
- Cochrane, Sanders V., Bridgetown, Tex. Band cutter. No. 1,421,764; July 4.
- Cockrell, William D. (See Sharp, A. H., and Cockrell.)
- Cohen, Abraham B., Far Rockaway, N. Y. Tooth-cleaning device. No. 1,421,911; July 4.
- Cohen, Alice H., executrix. (See Cohen, Stanley A.)
- Cohen, Harry. (See Wolfe, Daniel D., assignor.)
- Cohen, Solomon. (See Shirk, A. J., and Cohen.)
- Cohen, Stanley A., deceased, by A. H. Cohen, executrix, New York, assignor to The New York Consolidated Card Company, Long Island City, N. Y. Plating machine. No. 1,421,912; July 4.
- Colburn, Glen I., Geneva, N. Y. Nursery label. No. 1,421,674; July 4.
- Coleman, George D., deceased, Buffalo, N. Y., by N. S. Coleman, executrix, Revere, Mass. Antifouling composition. No. 1,421,914; July 4.
- Coleman, Nellie S., executrix. (See Coleman, George D.)
- Collier, Joseph W., assignor to Arcadia Trailer Corporation, Newark, N. Y. Vehicle. No. 1,422,034; July 4.
- Collins, Lester W., St. Paul, Minn. Refrigerator car. No. 1,421,913; July 4.
- Collyer, Louis G., Upper Montclair, N. J., assignor to The Aeolian Company. Adjustable connection for actuating arms. No. 1,421,408; July 4.
- Columbia Graphophone Manufacturing Company. (See Hincley, Frank C., assignor.)
- Colven, James M., Yonkers, N. Y., and A. Lowy, Newark, N. J., assignors to New York Engineering Company. Soot blower. No. 1,421,675; July 4.
- Concentrators Limited. (See Ondra, Frank, assignor.)
- Conrader, Rudolph, Erie, Pa. Pumping apparatus. No. 1,421,409; July 4.
- Cook, Charles L., Louisville, Ky. Grinder. No. 1,422,035; July 4.
- Cook, Stanley S. (See Parsons, C. A., and Cook.)
- Cooke, Frank V., Detroit, Mich. Vehicle spring. No. 1,421,410; July 4.
- Cooke, James H., Hartford, Conn. Chain. No. 1,421,915; July 4.
- Corbitt, Lester J., Detroit, Mich. Indicator lock. No. 1,421,411; July 4.
- Cory, Harvey, and O. D. Gray, Chicago, Ill. Friction lining. No. 1,421,412; July 4.
- Cossitt, Malcolm L., Alameda, Calif., assignor to Manifold Impressions Corporation, Carson City, Nev. Photographic-printing machine. No. 1,421,413; July 4.
- Craig, Charles F., San Francisco, Calif., assignor to Craig Golfmeter Co., Wilmington, Del. Captive-ball practice device. No. 1,421,414; July 4.
- Craig Golfmeter Co. (See Craig, Charles F., assignor.)
- Craig, Louis B., Davenport, Iowa. Saddler's chest. No. 1,421,916; July 4.
- Crane Company. (See Lindberg, Sam J., assignor.)
- Crane, Joshua, et al., trustees. (See Waterhouse, Harold D., assignor.)
- Crane, Walter S., et al., trustees. (See Waterhouse, Harold D., assignor.)
- Crowley, Joseph P., and C. A. Rowley, assignors to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for producing sheet glass. No. 1,422,036; July 4.
- Crucet, Joseph M., New York, N. Y. Lamp shade. No. 1,421,415; July 4.
- Cunningham, Emory L., Sikeston, Mo. Faucet valve. No. 1,421,765; July 4.
- Curry, Robert, New York, N. Y. Resilient tire. No. 1,421,917; July 4.
- Dake, Charles W., assignor to The Pyle-National Company, Chicago, Ill. Bearing for steam turbines. No. 1,421,918; July 4.
- Daniel, Edward W., Cleveland, Ohio. Wire-rope socket. No. 1,421,676; July 4.
- Davidson, Alexander H., Colma, and S. Sundelius, San Francisco, Calif. Cremation furnace. No. 1,421,919; July 4.
- Davis, Harold S., and R. F. Bacon, Pittsburgh, Pa., assignors to Texas Gulf Sulfur Company, Bay City, Tex. Process and apparatus for melting sulphur. No. 1,421,416; July 4.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance breech mechanism. No. 1,422,037; July 4.
- Day, David T., Washington, D. C. Treatment of hydrocarbon oils. No. 1,422,038; July 4.
- Day, William H. (See Campbell, C. S., and Day.)
- Dean, Charles L., assignor to Stearns-Roger Manufacturing Company, Denver, Colo. Drum for drying pulp and the like. No. 1,422,039; July 4.
- Deegan, Daniel J., Youngstown, Ohio. Perforator for printing presses. No. 1,421,417; July 4.
- Delco-Light Company. (See Keilholtz, Lester S., assignor.)
- De Launty, Reuben H., Chicago, Ill. Trailer-steering device. No. 1,422,040; July 4.
- De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)
- De Minico, Frank, assignor to Pollard-Alling Manufacturing Company, New York, N. Y. Printing machine. No. 1,421,920; July 4.
- Denmire, Harold A., assignor of one-half to The General Tire and Rubber Company, Akron, Ohio. Collapsible tire core. No. 1,421,418; July 4.
- De Remer Blatchford Company. (See Badger, Le Roy H., assignor.)
- Dersom, John J., Columbus, Ohio. Mechanical stoker. No. 1,421,419; July 4.
- Dery, Theodore J., Windsor, Ontario, Canada. Pressure-retaining dust cap for pneumatic-tire valves. No. 1,421,420; July 4.
- Detroit Sheet Metal Works. (See Ehmka, William C., assignor.)
- Di Le Compte, Onesime H., assignor to Universal Car and Hose Coupler Company, Oklahoma, Okla. Car-coupling knuckle. No. 1,421,421; July 4.
- Dinning, Thomas W., and E. H. Clymer, Renton, Wash. Vehicle sled. No. 1,422,041; July 4.
- Dirks, H. M. (See Burchess, Charles L., assignor.)
- Doerr, Carl F., Yonkers, N. Y. Rotary glass cutter. No. 1,421,921; July 4.
- Donat, Joseph L., Chicago, Ill. Antiskid device. No. 1,421,922; July 4.
- Donnelly, John R., Fairfield, Me. Game board. No. 1,422,042; July 4.
- Douros, Peter. (See Scarborough, Donald S., assignor.)
- D. P. Company. (See Gamage, Harry C., assignor.)
- Dunning, Parker, Bloomfield, N. J., assignor to General Electric Company. Starting compensator. No. 1,421,923; July 4.
- Drake, Thomas J., Sadieville, Ky. Gate. No. 1,421,422; July 4.
- Draper, Charles T., assignor to The Draper Manufacturing Company, Cleveland, Ohio. Removable false head for metallic containers. No. 1,422,043; July 4.
- Draper, Isaac S., Sullivan, Ind. Voting booth. No. 1,421,423; July 4.
- Draper Manufacturing Company, The. (See Draper, Charles T., assignor.)
- Dufour, George H., Oak Park, assignor to Marshall Field & Company, Chicago, Ill. Finger guard for printing presses. No. 1,421,424; July 4.
- Duncan, Wayne A., Chicago, Ill. Steam cooker. No. 1,421,425; July 4.
- Dunning, William F., Washington, D. C. Loose-leaf binder or file. No. 1,421,677; July 4.
- Eastman Kodak Company. (See Eberlin, L. W., and Sheppard, assignors.)
- Eastman Kodak Company. (See Von Bramer, Harold, assignor.)
- Eaton, Melvin C., et al. (See McFarland, William M., assignor.)
- Eaton, Warren E., et al. (See McFarland, William M., assignor.)
- Eaton, William S., Sag Harbor, N. Y. Etching or like machine. No. 1,421,426; July 4.
- Eaton, William S., Sag Harbor, N. Y. Etching or like machine. No. 1,421,427; July 4.
- Eberlin, Leon W., and S. E. Sheppard, assignors to Eastman Kodak Company, Rochester, N. Y. Light-diffusing medium and making the same. No. 1,421,924; July 4.
- Ebert, Rudolph G., Portland, Oreg. Game board and game. No. 1,421,678; July 4.
- Eckelmann, Luis E. (See Ferguson, G. E., and Eckelmann.)
- Eckelmann, Luis E., New York, N. Y., assignor to Pyrene Manufacturing Company. Fire-extinguishing solution. No. 1,421,428; July 4.
- Economic Steel Rack Company. (See Warnock, Amos W., assignor.)
- Edwards, Henry J., Elyria, assignor to The Willys-Overland Company, Toledo, Ohio. Rotary pump. No. 1,421,766; July 4.
- Edwards, Herbert A., London, England. Mount for artificial teeth. No. 1,422,044; July 4.
- Edwards, William, Schenectady, N. Y., assignor to General Electric Company. Packing for mercury dashpots. No. 1,421,767; July 4.
- Egbert, Albert, and E. Holmes, Toledo, Ohio. King bolt. No. 1,421,768; July 4.
- Ehmka, William C., assignor to Detroit Sheet Metal Works, Detroit, Mich. Air-circulating system for industrial ovens. No. 1,421,429; July 4.
- Ellersen, From C., Jersey City, N. J. Pie-making machine. No. 1,421,430; July 4.
- Elder, Earl B., assignor to E. D. Anderson, Inc., New York, N. Y. Automatic packaging equipment. No. 1,421,925; July 4.
- Elder, Earl B., assignor to E. D. Anderson, Inc., New York, N. Y. Automatic weighing mechanism. No. 1,421,926; July 4.
- Electric Controller Company. (See Goldberg, Arthur M., assignor.)
- Electric Fruit Marking Co. (See Neuenschwander, Lewis, assignor.)
- Electrostatic Separation Company. (See Brown, George R., assignor.)
- Elliott, Percy M., Chicago, Ill. Car-door top guide. No. 1,421,431; July 4.

- Embanks, Fred, assignor to Anastazy Koszyczarek, Cleveland, Ohio. Combined muffler and deodorizer for explosive engines. No. 1,421,432; July 4.
- Empfield, Berton C. (See Siemsen, Jurgen, assignor.)
- Epps, Frank A., assignor to Foamite Firefoam Company, New York, N. Y. Fire-extinguishing system. No. 1,421,433; July 4.
- Erickson, Julius, assignor to J. B. La Pierre, Chicago, Ill. Rim for steering wheels. No. 1,421,434; July 4.
- Ethier, Raymond F. (See Pendergast, G., and Ethier.)
- Eureka Tackle Block Company, The. (See Flynn, John H., Jr., assignor.)
- Fauchon-Villeplee, André L. O., Paris, France. Electric apparatus for propelling projectiles. No. 1,421,435; July 4.
- Faurot, Henry, Jr., assignor to Western Felt Works, Chicago, Ill. Window-mounting device. No. 1,421,927; July 4.
- Federal Electric Company. (See Mars, Thomas H., assignor.)
- Federal Products Company. (See Coates, Frederick, assignor.)
- Ferguson, George E., and L. E. Eckelmann, New York, N. Y., assignors to Pyrene Manufacturing Company. Fire-extinguishing agent. No. 1,421,436; July 4.
- Fernald, Burton J., et al. (See McFarland, William M., assignor.)
- Fernández, Venerando, Habana, Cuba. Automobile guard. No. 1,421,437; July 4.
- Ferris, Floyd A., Dallas, Tex. Order-filling counter. No. 1,421,679; July 4.
- Field, Oscar S., Roselle, N. J., assignor to Hall Switch & Signal Co. Three-position operating mechanism. No. 1,421,769; July 4.
- Fifield, Albert F., Newark, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Stitch-forming mechanism for chain-stitch sewing machines. No. 1,421,438; July 4.
- Finckh, Fritz, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Operating mechanism for the doors of self-discharging receptacles. No. 1,421,439; July 4.
- Fisher, James B., assignor to Waukesha Motor Company, Waukesha, Wis. Suction intake for pumps. No. 1,421,440; July 4.
- Fisk Rubber Company, The. (See Fording, William G., assignor.)
- Fitzgerald, Jeremiah C., Kilbourn, Wis. Drill. No. 1,421,928; July 4.
- Flaherty, Michael H., Philadelphia, Pa. Lock-sealed envelope. No. 1,422,045; July 4.
- Flauder, Alfred J. (See Weidlich, L., and Flauder.)
- Flinn, Francis J., Brooklyn, N. Y. Shim. No. 1,421,441; July 4.
- Floreskul, Gabriel, Toronto, Ontario, Canada. Combination table. No. 1,421,929; July 4.
- Flynn, John H., Jr., assignor to The Eureka Tackle Block Company, Cincinnati, Ohio. Tackle hook. No. 1,421,442; July 4.
- Foamite Firefoam Company. (See Epps, Frank A., assignor.)
- Fogel, Abraham, Montreal, Quebec, Canada. Hat box. No. 1,421,443; July 4.
- Folsom, Thomas C., Tampa, Fla. Railway switch. No. 1,421,444; July 4.
- Ford, Campbell, San Francisco, Calif. Apparatus for indicating the amount of water in automobile radiators. No. 1,421,930; July 4.
- Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Forming tires. No. 1,422,046; July 4.
- Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Electric braking. No. 1,421,931; July 4.
- Foster, John C., New York, N. Y. Spring-operated motor. No. 1,421,932; July 4.
- Frinkel, Arwed, Berlin, Germany. Coke-quenching receptacle. No. 1,421,445; July 4.
- Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Safety-deposit construction. No. 1,421,770; July 4.
- Freyberg, Joseph, and L. F. Wubbolding, Newport, Ky., assignors to The J. Baum Safe & Lock Company, Cincinnati, Ohio. Vault front and door construction. No. 1,421,771; July 4.
- Freeman, Dudley, Roxbury, Mass. Garment. No. 1,421,446; July 4.
- Fried, Krupp Aktiengesellschaft. (See Barth, Karl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Finckh, Fritz, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Immand, Gerhard, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Kolbe, W., and Fritzen, assignors.)
- Frinzi, Antonio, Easton, Pa. Switch plate. No. 1,421,447; July 4.
- Fritzsche, John, Philadelphia, Pa. Liquid-vending machine. No. 1,421,680; July 4.
- Fritz, Lewis, Chicago, Ill. Picture frame. No. 1,421,448; July 4.
- Fritzen, Johannes. (See Kolbe, W., and Fritzen.)
- Fry, Conrad D. (See Mansell, H. J., and Fry.)
- Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Lubricating device. No. 1,421,681; July 4.
- Fulda, Edward, New York, N. Y. Clip device for reels. No. 1,421,933; July 4.
- Gamage, Harry C., New York, N. Y., assignor to D. P. Company. Dustguard. No. 1,421,449; July 4.
- Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Method and apparatus for manipulating flexible articles. No. 1,421,450; July 4.
- Garagnani, Frank, Herrin, Ill. Railway-track indicator. No. 1,422,047; July 4.
- Garberding, Angelo F., Goodland, Minn. Belt. No. 1,421,451; July 4.
- Gardner, John P., Soldiers Home, Calif. Rail fastener. No. 1,421,682; July 4.
- Garvey, Richard, and T. J. Miner, New York, N. Y. Captive aeroplane. No. 1,421,683; July 4.
- Gary, William P., Totowa Borough, N. J. Aeroplane construction. No. 1,421,934; July 4.
- Gates, De Witt C. (See McConney, Robert B., assignor.)
- General Electric Company. (See Batchelder, Asa F., assignor.)
- General Electric Company. (See Dunning, Parker, assignor.)
- General Electric Company. (See Edwards, William, assignor.)
- General Electric Company. (See Forsberg, Peter W., assignor.)
- General Electric Company. (See Junggren, Oscar, assignor.)
- General Electric Company. (See Macloskie, George, assignor.)
- General Electric Company. (See Pritchard, Franklin H., assignor.)
- General Electric Company. (See Stevens, Harry M., assignor.)
- General Motors Corporation. (See Sturt, Alfred T., assignor.)
- General Tire and Rubber Company, The. (See Denmire, Harold A., assignor.)
- Geraghty, John P., Jersey City, N. J. Locking device for automobiles. No. 1,421,684; July 4.
- Gerosa, Carl N., Augusta, Ga. Mud hook. No. 1,421,452; July 4.
- Gilbert, Walker B., Lynchburg, Va. Hoop-stretching device. No. 1,421,935; July 4.
- Gilby, Frank R., Detroit, Mich. Wrench. No. 1,421,936; July 4.
- Giles, Harvey, Brooklyn, assignor to A. Ward, New York, N. Y. Coin-controlled vending machine. No. 1,421,453; July 4.
- Giró y Casañas, Pantaléon. (See Bosque, J. V., and Giró y Casañas.)
- Glessner, Charles E., Portland, Oreg. Tank and closure. No. 1,421,454; July 4.
- Glessner, Charles E., Portland, Oreg. Vacuum container. No. 1,421,685; July 4.
- Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
- Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
- Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Hinge joint. No. 1,422,048; July 4.
- Goodyear Tire & Rubber Company, The. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale, assignors.)
- Goldberg, Arthur M., assignor to Electric Controller Company, Inc., Indianapolis, Ind. Electric water heater. No. 1,421,937; July 4.
- Goldblatt, Charles I., Brooklyn, N. Y. Window-operating device. No. 1,421,938; July 4.
- Goldschmidt, Hans, and K. Müller, Essen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Zinc alloy. No. 1,421,686; July 4.
- Gould Coupler Company. (See Blake, Eli J., assignor.)
- Gould, George M., Madison, S. Dak. Trap. No. 1,422,049; July 4.
- Gray, Alexander. (See Moore, F., and Gray.)
- Gray, Orrin D. (See Cory, H., and Gray.)
- Great Northern Paper Company. (See Allen, Carlton H., assignor.)
- Greenberg, David S., Warren Point, N. J. Automobile wheel. No. 1,422,050; July 4.
- Green, Charles A., and H. F. Schuh, assignors to The C. F. Pease Company, Chicago, Ill. Ruling pen. No. 1,421,455; July 4.
- Green, Daries O., Toledo, Ohio. Kitchenette cabinet. No. 1,421,456; July 4.
- Gregg, Louis D., Hackensack, N. J. Rail fastening. No. 1,421,457; July 4.
- Gregg, William H. (See Hachmann, Frederick, assignor.)
- Gregory, George W., London, England. Apparatus for chopping foodstuffs. No. 1,421,458; July 4.
- Griswold, George G., Jr. (See Sheridan, G. E., and Griswold.)
- Gritzmacher, Henry F., Le Sueur, Minn. Snapping roll. No. 1,421,459; July 4.
- Grob, Walter. (See Stuer, B. C., and Grob.)
- Guillemet, François L., San Francisco, Calif. Propeller. No. 1,421,460; July 4.
- Hachalacht, Michael, assignor of one-fourth to G. L. Livingston and one-fourth to A. Okum, New York, N. Y. Air heater. No. 1,421,939; July 4.

ALPHABETICAL LIST OF PATENTEES.

V

- Hachmann, Frederick, assignor to W. H. Gregg, St. Louis, Mo. Manifold sales book and cover therefor. No. 1,421,461; July 4.
- Hall, C. M. Lamp Company. (See Watson, Harvey L., assignor.)
- Hall, Charles G., Akron, Ohio. Washing machine. No. 1,421,462; July 4.
- Hall, Furney C., Hartsfield, Ga. Cotton chopper. No. 1,422,051; July 4.
- Hall Switch & Signal Co. (See Blake, Eli J., assignor.)
- Hall Switch & Signal Co. (See Field, Oscar S., assignor.)
- Hallseth, Edwin A., et al. (See Boe, Edd, assignor.)
- Hamachek, Frank, Kewaunee, Wis. Green pea viner. No. 1,421,772; July 4.
- Hamilton, Alexander M., Toronto, Ontario, Canada. Transmission-lever-locking device. No. 1,421,463; July 4.
- Hamilton, William L., Bangor, Mich. Automatic pressure-operated switch. No. 1,421,940; July 4.
- Hans, Pierre, Brussels, Belgium. Keyboard for musical instruments. No. 1,421,464; July 4.
- Hansen, Marinus, Brooklyn, N. Y. Gauge for eyeglass mountings. No. 1,421,465; July 4.
- Hanson, Harry C., Minneapolis, Minn. Wall attachment. No. 1,422,052; July 4.
- Hanson, James R., and J. R. Shepherd, Anderson, S. C. Ring-rail brace for spinning machines. No. 1,421,466; July 4.
- Hanson, Oscar J., Fargo, N. Dak. Typewriting-instruction machine. No. 1,422,053; July 4.
- Happgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Milking-machine system. No. 1,421,773; July 4.
- Harden, Albert S., Newark, N. J. Wind-shield attachment. No. 1,421,467; July 4.
- Harder, Harry E., assignor of one-half to W. F. Leschen, St. Louis, Mo. Pressure gauge. No. 1,421,774; July 4.
- Harrington, William F., assignor to The Willys-Overland Company, Toledo, Ohio. Headlight-controlling mechanism. No. 1,421,775; July 4.
- Hartford-Fairmont Company. (See Mulholland, Vergil, assignor.)
- Haumerson, Anton F., assignor to Pounder Harrow Company, Fort Atkinson, Wis. Combined merry-go-round and teeter board. No. 1,421,468; July 4.
- Hauptmeyer, Friedrich, Essen, Germany. Material for artificial internal members of the human body. No. 1,421,776; July 4.
- Hawley, Joel E., Kansas City, Mo., and A. W. Chaps, Topeka, Kans. assignors of one-fourth to W. J. Riley, Kansas City, Mo. Dispensing device. No. 1,421,777; July 4.
- Hayes, Alva J., Corydon, Iowa. Door hanger. No. 1,421,941; July 4.
- Haynes, George P., Brooklyn, N. Y. Valve. No. 1,421,687; July 4.
- Healy, Maurice J., West Hoboken, N. J. Boiler. No. 1,421,778; July 4.
- Hechenbleikner, Ingenieur, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating acids. No. 1,421,688; July 4.
- Heerling, W., New York, N. Y. Foldable chair or the like. No. 1,421,779; July 4.
- Heide, William A., Detroit, Mich. Carburetor. No. 1,422,054; July 4.
- Heil, Julius P., Milwaukee, Wis. Fluid hoist. No. 1,421,469; July 4.
- Hellsing, Karl G. F., assignor to J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag, Stockholm, Sweden. Forced-lubrication apparatus provided with pumps. No. 1,421,470; July 4.
- Henker, Otto, assignor to the Firm of Carl Zeiss, Jena, Germany. Machine for grinding beveled rim surfaces on spectacle glasses. No. 1,422,055; July 4.
- Hercules Carburetor Company. (See Leahy, Herbert V., assignor.)
- Heskett, Walter P., Castletown, New Zealand. Metal compound powder and production of the same. No. 1,421,471; July 4.
- Hinckley, Frank C., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Correction device. No. 1,421,472; July 4.
- Hinson, John, Montreal, Quebec, Canada. Journal-box cooler. No. 1,421,473; July 4.
- Hinshelwood, Morris, Brooklyn, N. Y. Blank for slippers. No. 1,421,474; July 4.
- Hoffman, George F., (See Latsch, Otto, assignor.)
- Hoffman, Joseph, Camden, N. J. Safety latch for steering controllers. No. 1,421,475; July 4.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon mechanism for typewriters. No. 1,421,780; July 4.
- Holder, Edward P., (See Morgan, H. W., and Holder.)
- Holland, Edward M., et al. (See Putney, William W., assignor.)
- Holland, George R., Naugatuck, Conn. Window-shade fixture. No. 1,422,056; July 4.
- Holmes, Edward. (See Egbert, A., and Holmes.)
- Holmes, Edward. (See Thompson, F. H., and Holmes.)
- Holmes, Edward, Toledo, Ohio. Wire tie. No. 1,421,781; July 4.
- Holmes, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Decking apparatus for vehicles. No. 1,421,782; July 4.
- Holmes, George A., Newton Center, Mass., assignor to United States Fastener Company. Stud and socket fastener. No. 1,421,476; July 4.
- Holsberg, George A., San Francisco, Calif. Windshield sunshade. No. 1,421,942; July 4.
- Houvyath, Kalman. (See Ardo, Joseph, assignor.)
- Hosch, Greene C., and G. B. Kyle, assignors to The Measuragraph Company, St. Louis, Mo. Cloth-measuring and cost-computing machine. No. 1,421,943; July 4.
- Hooper, Charles L., Rochester, N. Y., assignor to Vacuum Oil Company, New York, N. Y. Apparatus for casing cans. No. 1,422,057; July 4.
- Hope, John T., Kansas City, Mo. Fan. No. 1,421,477; July 4.
- Hope, Ole J., Chicago, Ill. Scraper attachment for paint-brushes. No. 1,421,478; July 4.
- Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
- Hopkins, Sydney B., Summit, N. J., and C. Jelinek, Richmond Hill, N. Y. Stereotyper's and printer's tool. No. 1,421,689; July 4.
- Hovaneec, Valent, Ambridge, Pa. Tool holder. No. 1,422,058; July 4.
- Hover, Lee D., Chicago, Ill. Embroidery needle. No. 1,421,479; July 4.
- Howard, Edward G., Cincinnati, Ohio. Rubber garter. No. 1,421,690; July 4.
- Howard, Travis H. B., Como, Miss. Lamp extinguisher. No. 1,422,059; July 4.
- Hughes, Robert R., Jr., Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Looper mechanism for sewing machines. No. 1,422,060; July 4.
- Hughes, William C., New Haven, Conn. Clothes drier. No. 1,422,061; July 4.
- Hull, Horace, assignor of one-half to L. A. Bastin and one-half to J. H. Post, Denver, Colo. Cooker. No. 1,421,480; July 4.
- Humiston, Frederick L., New Haven, Conn., assignor to Winchester Repeating Arms Company. Spotlight. No. 1,421,944; July 4.
- Humphrey, Dwight E., (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
- Hunley, Dempsey R., Cofoco, W. Va. Combination trolley-wire stretcher and splice. No. 1,421,481; July 4.
- Hunt, Arthur H., Virgil, Kans. Self-adjusting clutch. No. 1,422,062; July 4.
- Hurd, Norman B., assignor to The American Hardware Corporation, New Britain, Conn. Door-holding device. No. 1,421,691; July 4.
- Hussong Dyeing Machine Company. (See Trickett, Walter S., assignor.)
- Hutchins, Rufus J., Middletown, Ohio. Water heater. No. 1,421,692; July 4.
- Hutchinson, Ely C., (See Buehle, E., and Hutchinson.)
- Immand, Gerhard, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Self-discharging car. No. 1,421,482; July 4.
- Index Visible, Inc. (See Campbell, C. S., and Day, assignors.)
- Inman Manufacturing Company. (See Joslin, Frank M., assignor.)
- International Paper Company. (See Murray, James M., assignor.)
- International Scale Company. (See Osgood, Louis A., assignor.)
- International Time Recording Company of New York, The. (See Odell, George W., assignor.)
- Iscro Chemical Company. (See Ladd, E. T., and Speiden, assignors.)
- Isenberg, Rudolf A., San Francisco, Calif. Elevator controller. No. 1,421,945; July 4.
- Iserson, Abraham S., (See Shirk, A. J., and Cohen, assignors.)
- J. & C. G. Bolinders Mekaniska Verkstads Aktiebolag. (See Hellsing, Karl G. F., assignor.)
- Jacques, George W., Stratford, Conn., assignor to The Singer Manufacturing Company. Back gauge. No. 1,421,483; July 4.
- Jelinek, Charles. (See Hopkins, S. B., and Jelinek.)
- Jennings, Arthur B., New York, N. Y. Air compressor. No. 1,421,484; July 4.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,421,783; July 4.
- Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Automatic take-up device. No. 1,421,784; July 4.
- Joel, Alfred, & Co. (See Mickle, Karl, assignor.)
- Johnson, Arthur A., Washington, D. C., assignor to Underwood Typewriter Company. Typewriting machine. No. 1,421,946; July 4.
- Johnson, Clare L., (See Beatty, H. B., and Johnson.)
- Johnson, John O., Modesto, Calif. Motor-starting device. No. 1,422,063; July 4.
- Jones, Albert F., Salem, Mass. Automatic counter forming machine. No. 1,421,947; July 4.
- Jones, David A., and C. R. Martin, Bartlesville, Okla. Filter. No. 1,421,948; July 4.
- Jones, Emerald E., Chicago, Ill. Cone belt shifter. No. 1,421,485; July 4.
- Jones, Erwin R., Columbus, Ohio. Operating devices for valve grinders. No. 1,421,486; July 4.
- Jones, Omar G., Philadelphia, Pa. Vehicle fender. No. 1,421,693; July 4.

- Jones, Samuel P., Columbia, S. C. Lubricator. No. 1,421,487; July 4.
- Jorgensen, Bernhard, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for removing surplus material. No. 1,421,488; July 4.
- Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Strip-feeding mechanism. No. 1,421,489; July 4.
- Juergens, Edward F., Middletown, Ohio, assignor to J. H. Wilson, Washington, D. C. Toy. No. 1,421,694; July 4.
- Jung, Erns., St. Louis, Mo. Permanent air gauge for pneumatic tires. No. 1,421,490; July 4.
- Junggren, Oscar, Schenectady, N. Y., assignor to General Electric Company. Vibration damper. No. 1,421,785; July 4.
- Kallman, Otto S., Minneapolis, Minn. Tap and reamer chuck. No. 1,421,949; July 4.
- Kammerer, Friedrich, Pforzheim, Germany. Producing hollow wire for the manufacturing of chains and the like. No. 1,421,491; July 4.
- Kamper, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Tube-welding machine. No. 1,421,786; July 4.
- Kane, Patrick, Chicago, Ill. Sanitary garbage can. No. 1,422,064; July 4.
- Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Metal building construction. No. 1,421,950; July 4.
- Kapferer, Henry, Billancourt, France. Trailer. No. 1,421,492; July 4.
- Kappes, Karl F., Mannheim, assignor to the Firm Luftfahrzeug-bau Schutte-Lanz, Mannheim-Rheinbau, Germany. Electromagnet for momentarily releasable locking devices with electric locking of the releasing means. No. 1,421,951; July 4.
- Kee, Robert H., and W. K. Munson, Los Angeles, Calif., assignors to Mun-Kee Products Corporation. Resilient stamp pad. No. 1,421,952; July 4.
- Keilholtz, Lester S., assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Signaling device. No. 1,421,953; July 4.
- Keiler, John L., Charles on, W. Va. Molding composition. No. 1,421,954; July 4.
- Kellogg, Leroy D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition and lighting switch. No. 1,421,493; July 4.
- Kellogg Switchboard and Supply Company. (See Kellogg, Leroy D., assignor.)
- Kemp, Charles B., New York, N. Y. Golf-bag ball receptacle. No. 1,421,955; July 4.
- Kessler, Harry C., Warrington, assignor to Breuker & Kessler Company, Philadelphia, Pa. Paper box. No. 1,421,494; July 4.
- Kestler, Herman J., New York, N. Y. Collapsible mold for concrete structures. No. 1,421,956; July 4.
- Kimball, Mayo D. (See Thomas, F. W., and Kimball.)
- Kincaid, Wilbert F., assignor of one-half to A. H. Mason, Gauley Bridge, W. Va. Automobile body. No. 1,421,788; July 4.
- Kingsbury, Albert, Pittsburgh, Pa. Bearing. No. 1,421,695; July 4.
- Kinmonth, Colin P., assignor to Henry Simon Limited, Manchester, England. Elevator. No. 1,421,787; July 4.
- Kirby, James B., Cleveland, Ohio. Suction sweeper. No. 1,421,957; July 4.
- Kirby, James B., Cleveland, Ohio. Suction sweeper. No. 1,421,958; July 4.
- Klavon, Joseph L., Jackson, Mich. Automobile spark indicator. No. 1,421,495; July 4.
- Klewanech, John, Royalton, Ill. Mine-fire-fighting apparatus. No. 1,421,496; July 4.
- Kloeffler, Royce G., Manhattan, Kans. Electrical heating unit. No. 1,421,959; July 4.
- Knowles, Harford C., Elmira, N. Y., assignor, by mesne assignments, to The Willys-Morrow Company, Inc. Bearing. No. 1,421,789; July 4.
- Koch, Hans, Dietikon, Switzerland. Device for dampening the warp on looms, etc. No. 1,421,498; July 4.
- Koch, Hans, and H. Müller, Dietikon, Switzerland. Reel frame. No. 1,421,497; July 4.
- Koehler, Howard R., Monaca, Pa. Liquid-measuring apparatus. No. 1,421,499; July 4.
- Kohler Company. (See Bucher, William W., assignor.)
- Kolbe, Werner, and J. Fritzen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Axle-recording device for railways. No. 1,421,500; July 4.
- Kops Bros. (See Weber, William G., assignor.)
- Koszyczarek, Anastazy, (See Embanks, Fred, assignor.)
- Koukos, John. (See Vafades, G., and Koukos.)
- Kraft, Henry P., Ridgewood, and M. C. Schweinert, West Hoboken, N. J. Gauge. No. 1,421,501; July 4.
- Krahe, Walter F., Brooklyn, N. Y. Amusement apparatus. No. 1,421,960; July 4.
- Kretser, Irvin D., et al. (See Boe, Edd, assignor.)
- Kruse, John F., Indianapolis, Ind. Bath-cabinet vaporizer. No. 1,421,502; July 4.
- Kucera, Peter, assignor to Capstan Glass Company, Connelville, Pa. Pitcher, tumbler, and package. No. 1,421,696; July 4.
- Kuhne, William H., Waterbury, Conn. Automatic advertising device. No. 1,421,961; July 4.
- Kyle, George B. (See Hosch, G. C., and Kyle.)
- Ladd, Edward T., and E. C. Speiden, assignors to Isco Chemical Company, Inc., Niagara Falls, N. Y. Bleaching powder. No. 1,421,503; July 4.
- Lahey, Dennis E., Louisville, Ky. Railway-switch filler. No. 1,421,962; July 4.
- Lahey, Dennis E., Louisville, Ky. Railway switch. No. 1,421,963; July 4.
- Langford, Robert H., Springfield, Tenn. Shipping device. No. 1,421,964; July 4.
- Langmeier, William, St. Louis, Mo. Indicator and calliper gauge for cane mills. No. 1,421,504; July 4.
- La Pierre, Julian B. (See Erickson, Julius, assignor.)
- Laplanche & Dunklin Printing Company. (See Beatty, H. B., and Johnson, assignors.)
- Larson, Albert L. (See Aldrich, A., and Larson.)
- Lash, Eber M. (See Wheeler, John A., assignor.)
- Latsch, Otto, Oxford, Ala., assignor of one-half to G. F. Hoffman, Philadelphia, Pa. High slip-draft apparatus for spinning cotton rovings. No. 1,421,965; July 4.
- LaVigne, George J., New Haven, Conn. Tire-chain retainer. No. 1,421,966; July 4.
- Leah, Howard, Wellington, New Zealand. Brake release spring mechanism for tram and the like cars. No. 1,421,697; July 4.
- Leahy, Herbert V., assignor to Hercules Carburetor Company, Los Angeles, Calif. Carburetor. No. 1,421,790; July 4.
- Leberer, Harry J., Frederick, Md. Hand crowner for applying crown caps to bottles. No. 1,421,698; July 4.
- Lees, Frederick, Philadelphia, Pa. Burial box. No. 1,421,967; July 4.
- Legg, Arthur S. (See Bawtree, Alfred E., assignor.)
- Lemoine, Louis R., Philadelphia, Pa., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Drying molds. No. 1,421,791; July 4.
- Leonard, Chester S., Lansdowne, Pa. Date-depitting machine. No. 1,421,505; July 4.
- Leschen, William F. (See Harder, Harry E., assignor.)
- Lewis, John H., Rhinelander, Wis. Farming machine. No. 1,421,968; July 4.
- Lewis, Joseph R. (See Straka, John, assignor.)
- Libby-Owens Sheet Glass Company, The. (See Crowley, J. P., and Rowley, assignors.)
- Limpert, Alexander S., Pittsburgh, Pa. Headlight. No. 1,421,506; July 4.
- Lindberg, Sam J., assignor to Crane Company, Chicago, Ill. Lapping metal pipe. No. 1,421,507; July 4.
- Linden, Alfred R., Dorchester, assignor of one-half to S. W. Campbell, Newton, Mass. Combination ratchet tool. No. 1,421,792; July 4.
- Lindsay, William, Chicago, Ill. Aeroplane propeller. No. 1,421,699; July 4.
- Litley, Phillip B. (See Linley, Robert W., and P. B.)
- Linley, Robert W. and P. B. Fairfield, Conn. Priming valve. No. 1,421,793; July 4.
- Linn, Robert, Chicago, Ill. Resilient wheel for vehicles. No. 1,421,508; July 4.
- Little Falls Fibre Company. (See Becker, Walter S., assignor.)
- Livingston, George L., et al. (See Hachalacht, Michael, assignor.)
- Lobeck, Oskar, Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Means for stiffening textile fabrics. No. 1,421,700; July 4.
- Lockwood, John A., Fillmore, N. Y. Illuminating apparatus. No. 1,421,509; July 4.
- Loeb, Rudolf, Jenkintown, Pa. Means for cutting fabrics. No. 1,421,969; July 4.
- Lorillard, P. Company. (See Ritchie, O. N., and Boykin, assignors.)
- Loth, Gustave M., Chicago, Ill. Violin bow. No. 1,421,510; July 4.
- Loud, Peter S. (See Anderson, Peter F., assignor.)
- Löw-Beer, Oscar, Frankfurt-on-Main, Germany, assignor, by mesne assignments, to The Chemical Foundation Inc. Tanning substance for tanning animal hides and preparing the same. No. 1,421,701; July 4.
- Lowy, Arthur. (See Colven, J. M., and Lowy.)
- Luftfahrzeug-bau Schutte-Lanz. (See Kappes, Karl F., assignor.)
- Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stamping machine. No. 1,421,511; July 4.
- McCartney, James B., assignor of one-fourth to E. F. Richman and one-fourth to C. J. Richman, Muscatine, Iowa. Paint composition. No. 1,421,970; July 4.
- McCarty, Bert, Tampa, Fla. Hydrochemical cleaner. No. 1,421,971; July 4.
- McCullough, James H., Jr., San Jose, Calif. Automobile seat. (Reissue.) No. 15,396; July 4.
- McConnell, Henry C., Grand River, Iowa. Train-operated gate. No. 1,421,512; July 4.
- McConney, Robert B., assignor of sixteen and two-thirds one-hundredths to D. C. Gates, Denver, Colo. Automatically-operating hydropneumatic water-lifting apparatus. No. 1,421,513; July 4.
- McCurdy, Ralph G., Cresskill, N. J., assignor to American Telephone and Telegraph Company. Testing apparatus. No. 1,421,702; July 4.
- McFarland, William M., Norwich, N. Y., assignor of one-fifth to W. R. Turner, one-fifth to W. E. Eaton, one-fifth to M. C. Eaton, and one-fifth to B. J. Fernald. Trousers supporter. No. 1,421,514; July 4.

- McGann, William H., Minneapolis, Minn. Grain-door forcing device. (Reissue.) No. 1,539,7; July 4.
- McGill, Daniel, assignor to Volos Manufacture Limited, London, England. Treatment of fibrous materials. No. 1,421,703; July 4.
- McKnight, Richard, Chicago, Ill. Filing device. No. 1,421,515; July 4.
- McLaughlin, Robert, assignor of one-half to A. G. Patton, Monmouth, Ill. Farm-gate hinge. No. 1,421,794; July 4.
- McNabb, Dustin W., et al. (See Boe, Edd, assignor.)
- Macklin, Otto H., assignor to The Miller Rubber Company, Akron, Ohio. Apparatus for producing thin rubber sheets. No. 1,421,795; July 4.
- Mackovitch, Joseph F., Conway, assignor of one-third to M. Mailing, Pittsburgh, Pa. Burglar alarm. No. 1,421,972; July 4.
- Macloskie, George, Erie, Pa., assignor to General Electric Company. Safety car-control equipment. No. 1,421,796; July 4.
- Maeshima, Shintaro, Tokyo, Japan. Magnetic healing apparatus. No. 1,421,516; July 4.
- Mailing, Mandoline. (See Mackovitch, Joseph F., assignor.)
- Malcamp, Philip, New Orleans, La. Automatic alarm mechanism for pasteurizing milk. No. 1,421,517; July 4.
- Malloy, Charles L., Coaldale, Pa. Sadiron light. No. 1,421,973; July 4.
- Maloney, Edward J., Long Island City, assignor to A. Wolf, New York, N. Y. Presser-foot attachment for sewing machines. No. 1,421,797; July 4.
- Mandel, William, Minneapolis, Minn. Storm-sash fastener. No. 1,421,798; July 4.
- Manifold Impressions Corporation. (See Cossitt, Malcolm L., assignor.)
- Mansell, Henry J., Oakland, and C. D. Fry, Alameda, Calif. Change-speed-gear mechanism. No. 1,421,799; July 4.
- Marckworth, Otto S., Columbus, Ohio. Producing non-shatterable glass. No. 1,421,974; July 4.
- Maris, Claude A., Terre Haute, Ind. Adjustable thrust bearing. No. 1,421,518; July 4.
- Mars, Thomas H., assignor to Federal Electric Company, Chicago, Ill. Gearing. No. 1,421,800; July 4.
- Marsh, Edward A., Newton, assignor to Waltham Watch Company, Waltham, Mass. Repeater timepiece. No. 1,421,801; July 4.
- Marshall Field & Company. (See Dufour, George H., assignor.)
- Marshall, Lewis C., Walpole, assignor to Pressure Proof Piston Ring Company, Boston, Mass. Piston packing. No. 1,421,802; July 4.
- Martin, Clarence R. (See Jones, D. A., and Martin.)
- Martin, James V., Elyria, Ohio. Tractor biplane. No. 1,421,803; July 4.
- Martinson, Herman M. (See Brown, O. B., Moore, Parker, and Martinson.)
- Mason, Albert H. (See Kincaid, Wilbert F., assignor.)
- Masson, Charles T., Wood Bay, Manitoba, Canada. Watch pocket for overalls, working shirts, and the like. No. 1,421,519; July 4.
- Mattern, George A., Berkeley, Calif. Bathing suit. No. 1,421,704; July 4.
- Mattson, Julius G., Heretaunga, New Zealand. Saw. No. 1,421,520; July 4.
- Maxwell, George E., New Ulysses, Kans. Automatic clutch release. No. 1,421,521; July 4.
- Mayer, George F., Chicago, Ill. Lock. No. 1,421,522; July 4.
- Measuregraph Company, The. (See Hosch, G. C., and Kyle, assignors.)
- Measuregraph Company. (See Turner, Douglas, assignor.)
- Mechau, Emil, Rastatt, Germany. Kinematographic apparatus. No. 1,421,523; July 4.
- Meeker, John A., Potsdam, N. Y. Butter-fat gauge. No. 1,421,524; July 4.
- Meisel, Charles A., assignor to Meisel Press Manufacturing Company, Boston, Mass. Numbering head. No. 1,421,525; July 4.
- Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)
- Meidell, Thor, assignor to A/S Labrador, Christiania, Norway. Removing iron from solutions containing aluminium. No. 1,421,804; July 4.
- Melish, Thomas G., Cincinnati, Ohio. Holder for jars. No. 1,421,705; July 4.
- Melown, George E., McKeesport, Pa. Lubricating device for rolling mills. No. 1,421,805; July 4.
- Melvin, William O., Lakewood, Ohio. Display attachment for counters. No. 1,421,806; July 4.
- Metzger, Fritz L., Avalon, Pa. Spacing bar. No. 1,421,807; July 4.
- Meyers, J. Nicholas, Philadelphia, Pa. Tracing device. No. 1,421,975; July 4.
- Michell, Anthony G. M., Melbourne, Victoria, Australia, assignor to Michell Bearings Limited, Westminster, England. Method and apparatus for pumping fluids. No. 1,421,976; July 4.
- Michell Bearings Limited. (See Michell, Anthony G. M., assignor.)
- Mickle, Karl, assignor to the Firm Alfred Joël & Co., Zurich, Switzerland. Shock absorber. No. 1,421,977; July 4.
- Miethe, Carl, Chicago, Ill. Vehicle spring wheel. No. 1,421,808; July 4.
- Miller, Charles C., Fort Wayne, Ind. Folding box. No. 1,421,526; July 4.
- Miller, E. A. (See Müller, Eduard F., assignor.)
- Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition and preparing same. No. 1,421,527; July 4.
- Miller, Louis A., assignor to Winchester Repeating Arms Company, New Haven, Conn. Flashlight. No. 1,421,528; July 4.
- Miller Rubber Company, The. (See Macklin, Otto H., assignor.)
- Millhouse, Ross, Los Angeles, Calif. Cleaning device. No. 1,421,529; July 4.
- Milligan, Lowell H., New Kensington, Pa., assignor to Newton D. Baker, Secretary of War. Making arsenic trichloride. No. 1,421,978; July 4.
- Mills, Ronald V., Sandy Spring, Md. Excluding water from oil and gas wells. No. 1,421,706; July 4.
- Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Preparing a permanent and spinnable solution in the cupric ammonia process. No. 1,421,707; July 4.
- Miner, Theodore J. (See Garvey, R., and Miner.)
- Miner, William H. (See O'Connor, John F., assignor.)
- Mining and Metallurgical Process Proprietary Limited. (See Rigg, Gilbert, assignor.)
- Mischke, Paul, East Rutherford, N. J. Ash sifter. No. 1,421,809; July 4.
- Mitchell, Howard S., Homer, La. Fire extinguisher. No. 1,421,979; July 4.
- Moore, Frank and A. Gray, Toronto, Ontario, Canada. Carburetor attachment. No. 1,421,530; July 4.
- Moore, Hugh K. (See Brown, O. B., Moore, Parker, and Martinson.)
- Moras, Ferdinand, Sommerfeld, Germany. Double-knee siphon. No. 1,421,531; July 4.
- Morgan, Henry W., and E. F. Holder, Greenville, S. C. Tight band pulley. No. 1,421,708; July 4.
- Morse, Frederick L., Framingham, Mass. Protecting shoe lasts. No. 1,421,980; July 4.
- Muck, John, Milwaukee, Wis. Roller skate. No. 1,421,532; July 4.
- Mulholland, Vergil, West Hartford, Conn., assignor to Hartford-Fairmont Company, Canajoharie, N. Y. Closure for molten-glass outlets. No. 1,421,810; July 4.
- Müller, Eduard F., Leipzig-Lindenau, Germany, assignor to E. A. Miller, Millvale Extension, Pa. Liquid-coating machine. No. 1,421,811; July 4.
- Müller, Gottfried, Sumiswald, Switzerland. Frame saw. No. 1,421,533; July 4.
- Müller, Gottwalt, Berlin-Weissensee, Germany. Worm drive for electric cars especially mine locomotives. No. 1,421,534; July 4.
- Müller, Hans. (See Koch, H., and Müller.)
- Müller, Karl. (See Goldschmidt, H., and Müller.)
- Mun-Kee Products Corporation. (See Kee, R. H., and Munson, assignors.)
- Munson, Whitney K. (See Kee, R. H., and Munson.)
- Murdock, Van Quinton, Columbus, Ohio. Pencil grip. No. 1,421,535; July 4.
- Murray, James M., Berlin, N. H., assignor to International Paper Company. Method of and apparatus for feeding pulp to the forming wires of paper making machines. No. 1,421,981; July 4.
- Myer, Bert, and J. Brown, Elkhart, Kans. Wrench. No. 1,421,536; July 4.
- National Sales Machine Company. (See Reith, George C., assignor.)
- Needham, Moses W., Waco, Tex. Soft-rubber tire filler. No. 1,421,537; July 4.
- Neff, Harry D., Cambridge, assignor to Re-Filit Broom Company, Boston, Mass. Broom-bundle-making machine. No. 1,421,812; July 4.
- Nelson, Frank C., Clarksburg, W. Va. Clothes hanger. No. 1,421,709; July 4.
- Nesbit, Arthur F., Wilkinsburg, Pa. Direct-current transformer. No. 1,421,538; July 4.
- Neuenschwander, Lewis, Los Angeles, assignor to Electric Fruit Marking Co., San Francisco, Calif. Electric fruit-marking machine. No. 1,421,539; July 4.
- New York Consolidated Card Company, The. (See Cohen, Stanley A., assignor.)
- New York Engineering Company. (See Colven, J. M., and Lowy, assignors.)
- Noll, George L., Madison, N. J. Antifriction skid. No. 1,421,540; July 4.
- Nolty, Lewis, Lancaster, Pa. Folding table. No. 1,421,541; July 4.
- Nonnemacher, Clyde S., Wenonah, N. J. Strap fastener. No. 1,421,813; July 4.
- Nonnemacher, Clyde S., Wenonah, N. J. Strap fastener. No. 1,421,814; July 4.
- Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Printing couple. No. 1,421,982; July 4.
- Nordfors, Conrad, Jersey City, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Machine for counting out and marking printed products. No. 1,421,983; July 4.
- Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Loom-temple thread cutter. No. 1,421,815; July 4.

ALPHABETICAL LIST OF PATENTEES.

- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machine for making lined envelopes. No. 1,421,816; July 4.
- Novick, Abraham, Brooklyn, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Creasing mechanism. No. 1,421,817; July 4.
- Oakley, Clifford H., Trenton, N. J. Rubber mat. No. 1,421,818; July 4.
- Ochsner, Emil, Sutton, Nebr. Radiator. No. 1,421,542; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock absorber. No. 1,421,819; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Shock absorber. No. 1,421,820; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,421,821; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,421,822; July 4.
- O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand brake. No. 1,421,823; July 4.
- Odell, George W., Binghamton, N. Y., assignor to The International Time Recording Company of New York. Time recorder. No. 1,421,824; July 4.
- Okum, Abraham, et al. (See Hachalacht, Michael, assignor.)
- O'Leary, William, Belvedere College, Dublin, Ireland. Clock. (Reissue.) No. 15,398; July 4.
- Oliver, Thomas C. (See Hechenbleikner, L. and Oliver.)
- Olson, Charles, Lafayette, Minn. Dishwashing machine. No. 1,421,543; July 4.
- Olsson, Nils J., assignor to Aktiebolaget Svenska Kullagerfabriken, Gottenborg, Sweden. Means for automatically cutting off the feed motion of machine tools. No. 1,421,544; July 4.
- Ondra, Frank, assignor to Concentrators Limited, Johannesburg, Transvaal, South Africa. Concentrating pulverulent material. No. 1,421,984; July 4.
- Orussa, Lorence, Roanoke, Ill. Toy. No. 1,421,985; July 4.
- Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,421,545; July 4.
- Osgood, Louis A., assignor to International Scale Company, Dayton, Ohio. Thermostat for portable scales. No. 1,421,825; July 4.
- Owen, Richard E., Washington, D. C. Mounting for outboard motors. No. 1,421,710; July 4.
- Parker, Howard. (See Brown, O. B., Moore, Parker, and Martinson.)
- Parkin, David O., Venice, Calif. Radiator. No. 1,421,546; July 4.
- Parks, Harry S., Philadelphia, Pa., assignor to Pneumatorator Company, New York, N. Y. Distant boiler-water-level indicator. No. 1,421,711; July 4.
- Parslow, Earl E., San Diego, Calif. Valve-stem lubricator. No. 1,421,826; July 4.
- Parsons Appliance Company. (See Parsons, Jesse, assignor.)
- Parsons, Charles A., and S. S. Cook; said Cook assignor to said Parsons; Wallsend-on-Tyne, England. Steam superheater. No. 1,421,712; July 4.
- Parsons, Jesse, assignor to Parsons Appliance Company, Seattle, Wash. Window-operating means. No. 1,421,547; July 4.
- Pattison, William L., Rosedale, Kans. Floor grating. No. 1,421,827; July 4.
- Patton, A. G. (See McLaughlin, Robert, assignor.)
- Pease, C. F., Company, The. (See Green, C. A., and Schuh, assignors.)
- Piebles, Thomas A., Pittsburgh, Pa. Furnace. (Reissue.) No. 15,399; July 4.
- Peerless Motor Car Company, The. (See Strickland, William R., assignor.)
- Pelton Water Wheel Co. (See Buehle, E., and Hutchinson, assignors.)
- Pendergast, George, and R. F. Ethier, Milwaukee, Wis. Fastener for license plates. No. 1,421,548; July 4.
- Penrod, William F., Blanchester, assignor of two-thirds to Auto Sales and Service Company, Cincinnati, Ohio. Lighting system for automobiles. No. 1,421,549; July 4.
- Peters, Carl, St. Louis, Mo. Aeroplane. No. 1,421,550; July 4.
- Peters Machine and Manufacturing Company, The. (See Thieme, William H., assignor.)
- Petrask, Charles J., New York, N. Y. Self-oiling rotary cutter. No. 1,421,713; July 4.
- Pfister & Vogt Leather Co. (See Bossert, Charles P., assignor.)
- Phillips, Arthur T. (See Theed, W. H. A., and Phillips.)
- Phillips, Elmer V., Philadelphia, Pa. Wall construction. No. 1,421,986; July 4.
- Phillips, James F. A., Trenton, N. J. Spring lubricator. No. 1,421,551; July 4.
- Piper, Walter P. (See Beardsley, E. O., and Piper.)
- Pittsburgh Transformer Company. (See Bingay, Robert V., assignor.)
- Pletscher, Fritz, Lucerne, Switzerland. Rear brake for motor and other cycles. No. 1,421,552; July 4.
- Pneumatorator Company. (See Parks, Harry S., assignor.)
- Pneumatorator Company. (See Stancliffe, Cecil W., assignor.)
- Pohl, Charles, Los Angeles, Calif. Gun sight. No. 1,421,553; July 4.
- Pohl, Charles, Los Angeles, Calif. Auxiliary inlet device for internal-combustion engines. No. 1,421,554; July 4.
- Pollard-Alling Manufacturing Company. (See De Minico, Frank, assignor.)
- Post, Clifford W. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
- Post, John H., et al. (See Hull, Horace, assignor.)
- Post, Nathaniel B., Chicago, Ill. Pop-corn mold. No. 1,421,555; July 4.
- Potter & Buffinton Company. (See Weed, Edward L., assignor.)
- Potter, Charles F., et al. (See Sykes, George, assignor.)
- Pounder Harrow Company. (See Haumerson, Anton F., assignor.)
- Powers, Robert E., Montreal, Quebec, Canada. Coupling centering device. No. 1,421,556; July 4.
- Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Support for mining machines. No. 1,421,557; July 4.
- Preimesberger, Alois L., Menasha, Wis. Friction clutch pulley. No. 1,421,558; July 4.
- Prendergast, Edward, St. Louis, Mo. Grading machine. No. 1,421,559; July 4.
- Prescott, William E., assignor to J. Baker and Sons Limited, London, England. Machine for breaking cocoa cake or the like. No. 1,421,560; July 4.
- Pressure Proof Piston Ring Company. (See Marshall, Lewis C., assignor.)
- Pritchard, Franklin H., Schenectady, N. Y., assignor to General Electric Company. Power transmission and electric braking. No. 1,421,828; July 4.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Sealing device. No. 1,421,714; July 4.
- Puc, Vojtěch, Prague-Vinohrady, Bohemia. Mechanism for sorting the socket members of snap fasteners. No. 1,421,715; July 4.
- Pugsley, Edwin, New Haven, Conn., assignor to The Winchester Repeating Arms Company. Battery candle. No. 1,421,561; July 4.
- Putney, William W., assignor of one-fourth to C. E. Cartier and one-fourth to E. M. Holland, Grand Rapids, Mich. Hoop-forming machine. No. 1,421,829; July 4.
- Pyle-National Company, The. (See Dake, Charles W., assignor.)
- Pyrene Manufacturing Company. (See Eckelmann, Luis E., assignor.)
- Pyrene Manufacturing Company. (See Ferguson, G. E., and Eckelmann, assignors.)
- Quinn, Elmer, Philadelphia, Pa. Tool for releasing an air valve from rim of an automobile tire. No. 1,421,987; July 4.
- Rafferty, William J., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Testing machine. No. 1,421,562; July 4.
- Raggio, Dante A., Chicago, Ill. Locking means. No. 1,421,563; July 4.
- Randall, Arthur F., Shreveport, La. Automobile storm curtain. No. 1,421,716; July 4.
- Rayfield, Charles L., Chicago, Ill., assignor to Beneke & Kropp Manufacturing Company. Thermostatic device for cooling systems of internal-combustion engines. No. 1,421,830; July 4.
- Re-Fit Broom Company. (See Neff, Harry D., assignor.)
- Reed, Walter C., Dalton, Mass. Power-transmission apparatus. No. 1,421,565; July 4.
- Reese, Reese D., Virginia, Minn. Machine for making springs. No. 1,421,566; July 4.
- Reith, George C., Philadelphia, Pa., assignor, by mesne assignments, to National Sales Machine Company, Worcester, Mass. Vending machine and the like. No. 1,421,831; July 4.
- Remington Typewriter Company. (See Seib, George A., assignor.)
- Renda, Anthony, New York, N. Y. Pan with overflow-alarm device. No. 1,421,717; July 4.
- Rhoads, Harry E., assignor to The Willys-Overland Company, Toledo, Ohio. Oil pump. No. 1,421,718; July 4.
- Richards, William H., Knoxville, Tenn. Apparatus for casting fillings for teeth. No. 1,421,988; July 4.
- Richey, William A., and C. H. Rowles, Akron, Ohio. Gasoline and oil saver. No. 1,421,567; July 4.
- Richman, Charles J., et al. (See McCartney, James B., assignor.)
- Richman, Evert F., et al. (See McCartney, James B., assignor.)
- Rigg, Gilbert, assignor to Mining and Metallurgical Process Proprietary Limited, Melbourne, Victoria, Australia. Blast-roasting apparatus and the like. No. 1,421,989; July 4.
- Riley, Ralph J., Portland, Me. Sprocket wheel. No. 1,421,832; July 4.
- Riley, William J. (See Hawley, J. E., and Caps, assignors.)
- Rindt, Vincent R., Winter, Wis. Signal. No. 1,421,990; July 4.
- Riser, Jacob J., Shelbyville, Ind. Apparatus for resetting sound reproducers. No. 1,421,568; July 4.
- Ritchie, Oscar N., Hamilton, and H. C. Boykin, Middletown, Ohio, assignors to P. Lorillard Company, New York, N. Y. Article-feeding machine. No. 1,421,569; July 4.
- Robb, John F., Cleveland, Ohio. Control mechanism for calculating machines. No. 1,421,719; July 4.

- Roberts, Claudius H. M., Washington, D. C. Method of and apparatus for detecting the presence of one gas in another. No. 1,421,720; July 4.
- Robinson, Jay G., Chicago, Ill. Door-operating appliance. No. 1,421,721; July 4.
- Robinson, Joseph V., Morristown, N. J. Automatic train-pipe connector. (Reissue.) No. 15,400; July 4.
- Rod, Albert Edward Day's Bay, Wellington, New Zealand. Game. No. 1,421,570; July 4.
- Rodger, John M., Chicago, Ill. Power-operated churn. No. 1,421,571; July 4.
- Rodgers, Claude M., and A. W. Wenger, Warsaw, Ind. Fish lure. No. 1,421,991; July 4.
- Roeling, Henry W., E. H. Williams, and J. G. Bauer, New Orleans, La. Automatic coin separating and counting device. No. 1,421,992; July 4.
- Rofe, Charles A., Marton, New Zealand. Lifting iron for mo or cars. No. 1,421,993; July 4.
- Rofe, Thomas E., et al. (See Stevenson, Cecil V., assignor.)
- Röhm, Otto, Darmstadt, Germany, assignor to The Chemical Foundation, Inc. Tanning with aluminum salts. No. 1,421,723; July 4.
- Rohrer, John W., Columbus, Ohio. Driving mechanism for locomotive stokers. No. 1,421,994; July 4.
- Römer, Adolf, Stuttgart, and L. Blangey, Mannheim, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Tanning. No. 1,421,722; July 4.
- Rosamond, Arthur R., Laramie, Wyo., assignor to D. E. Soden, Kansas. Electric time-switch mechanism. No. 1,421,833; July 4.
- Roseburg, Louis E. (See Spector, B., and Rosenberg.)
- Ross, James, assignor to Advance Rumely Company, Laporte, Ind. Differential. No. 1,421,834; July 4.
- Rowan, Alfred J., Sault Ste. Marie, Mich. Lubricant-controlling device for automatically controlling the lubricating system of gas engines of automobiles and other motor vehicles. No. 1,421,995; July 4.
- Rowles, Clem H. (See Richey, W. A., and Rowles.)
- Rowley, Clifford A. (See Crowley, J. P., and Rowley.)
- Rugg, Frank D., Greenfield, Mass. Support for ice-cream freezers. No. 1,421,724; July 4.
- Running, Tom, Juneau, Alaska. Seine-operating mechanism. No. 1,421,996; July 4.
- Russ, George F., Jersey City, N. J. Envelope filling and closing machine. No. 1,421,835; July 4.
- Russel, Albert W., assignor to Russel Motor Axle Company, Detroit, Mich. Vehicle axle. No. 1,421,836; July 4.
- Russel Motor Axle Company. (See Russel, Albert W., assignor.)
- Ryalls, Henry W., Thurmond, W. Va. Valve for gauge cocks. No. 1,421,572; July 4.
- Sacks, George P. (See White, George H., assignor.)
- Sandquist, John V., Houston, Tex. Link. No. 1,421,997; July 4.
- Sands, A. B., & Son Co. (See Allan, Percy, assignor.)
- Saunders, Randall W., Brooklyn, N. Y. Attachment plug for oiling systems for internal-combustion engines. No. 1,421,725; July 4.
- Saunders, Randall W., Brooklyn, N. Y. Safety steel strap cushion lock. No. 1,421,726; July 4.
- Scarborough, Donald S., St. Louis, Mo., assignor to P. Douros, East St. Louis, Ill. Commutator and battery-charging outfit including the same. No. 1,421,998; July 4.
- Schaefer-De Lude-Wallace Company, et al. (See Schaefer, Frank M., assignor.)
- Schaefer, Frank M., assignor of one-half to C. M. Bentley, Chicago, Ill., and one-half to Schaefer-De Lude-Wallace Company. Vegetable-paring machine. No. 1,421,837; July 4.
- Schaefer, Henry H., Weldona, Colo. Gate fastener. No. 1,421,573; July 4.
- Schaefer, Don W., Dayton, Ohio. Illuminating mechanism. No. 1,421,838; July 4.
- Schafer, William J., Santa Cruz, Calif. Direction indicator. No. 1,421,727; July 4.
- Schiffmann, Johannes, Ballenstedt, Germany. Making an indestructible black stamp dye for documents. No. 1,421,728; July 4.
- Schiller, Rudolph F., Sun Prairie, Wis. Shoe-string tip. No. 1,421,999; July 4.
- Schlosser, Morris, New York, N. Y. Display book. No. 1,421,574; July 4.
- Schmick, Henry J., Williamsport, Pa. Cam gearing. No. 1,422,000; July 4.
- Schmid, Herman. (See Fuegel, G., and Schmid.)
- Schmid Manufacturing Company. (See Seastrom, Wesley E., assignor.)
- Schmid, William, Bronson, Mich. Fishline reel. No. 1,421,839; July 4.
- Schmidt, Edward F., Chicago, Ill. Game. No. 1,421,575; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric and Manufacturing Company. Fluid-translating device. No. 1,421,840; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,841; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,842; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,843; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,844; July 4.
- Schmidt, Henry F., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Fluid-translating device. No. 1,421,845; July 4.
- Schneider & Cie. (See Schneider, Eugene, assignor.)
- Schneider, Eugene, assignor to Schneider & Cie, Paris, France. Compressed-air recuperator for guns. No. 1,421,576; July 4.
- Scholfield, Frederick E., Waterford, Conn. Apparatus for aircraft. No. 1,421,846; July 4.
- Schopke, Charlie, San Francisco, Calif. Nonglaring attachment for headlights. No. 1,421,847; July 4.
- Schuchman, Harry, Little York, Ill. Automobile tire-chain hook. No. 1,421,577; July 4.
- Schuh, Henry F. (See Green, C. A., and Schuh.)
- Schumacher, Elmer L., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,421,729; July 4.
- Schussler, Joseph, Bethlehem, Pa. Safety revolver holster. No. 1,421,578; July 4.
- Schweinert, Maximilian C. (See Kraft, H. P., and Schweinert.)
- Scusa, Lino, Phoenix, N. Y. Toilet-paper winder. No. 1,421,730; July 4.
- Sealright Co. (See Wright, Wilbur L., assignor.)
- Seastrom, Wesley E., assignor to Schmid Manufacturing Company, Dubuque, Iowa. Handle joint. No. 1,421,848; July 4.
- Seelberger, Othmar, Brugg, Switzerland. Bobbinet-making machine. No. 1,421,579; July 4.
- Seemann, Henry, Hamburg, Germany. Worm for worm gears. No. 1,421,580; July 4.
- Seewald, Joseph, Brooklyn, N. Y. Garment construction. No. 1,421,849; July 4.
- Selb, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,421,581; July 4.
- Senz, Wendelin P., Chicago, Ill. Lubricating device. No. 1,421,582; July 4.
- Senz, Wendelin P., Chicago, Ill. Oiling device. No. 1,421,583; July 4.
- Shafer, Homer R., Detroit, Mich. Resilient wheel. No. 1,421,584; July 4.
- Sharp, Alonzo H., and W. D. Cockrell, Aldrich, Minn. Chimney cleaner. No. 1,422,001; July 4.
- Shaw, Arthur L., Chicago, Ill., assignor to Chicago Automatic Conveyor Co., Conveyor. No. 1,422,002; July 4.
- Shawmut Machine Works, Inc. (See Smith, Raymond D., assignor.)
- Shearer, Arthur M., Indiana, Pa. Single-line grab-bucket construction. No. 1,422,003; July 4.
- Shelton, Harry J., St. Louis, Mo. Grinder and shredder. No. 1,421,731; July 4.
- Shepherd, John R. (See Hanson, J. R., and Shepherd.)
- Sheppard, Samuel E. (See Eberlin, L. W., and Sheppard.)
- Sheridan, Guy E., and G. G. Griswold, Jr., Butte, Mont. Concentration of ores by flotation. No. 1,421,585; July 4.
- Sherwin, Ralph S., East St. Louis, Ill., assignor to Aluminum Company of America, Pittsburgh, Pa. Obtaining alumina. No. 1,422,004; July 4.
- Shirk Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Stand and automatic switch for electric irons. No. 1,421,586; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,587; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,588; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Electric press iron. No. 1,421,589; July 4.
- Shirk, Art J., and S. Cohen, assignors to A. S. Iserson, New York, N. Y. Stand and automobile switch for electric irons. No. 1,421,850; July 4.
- Shriever, Albert, and H. E. Sutton Coldfield, England. Lifting jack. No. 1,421,590; July 4.
- Shrieves, Henry E. (See Shrieves, Albert and H. E.)
- Shuler, Edwin H., Lansing, and M. C. Shuler, Charlotte, Mich. Gas burner. No. 1,421,591; July 4.
- Shuler, Max C. (See Shuler Edwin H. and M. C.)
- Siemens, Jurgen, assignor to B. C. Empfield, Broken Bow, Nebr. Grain-car door. No. 1,421,592; July 4.
- Simon, Henry Limited. (See Kininmouth, Colin P., assignor.)
- Sims, Milford R., Sauemin, Ill. Cultivator attachment. No. 1,421,593; July 4.
- Singer Manufacturing Company, The. (See Fifield, Albert F., assignor.)
- Singer Manufacturing Company, The. (See Jacques, George W., assignor.)
- Skarzynski, Frank, Rochester, N. Y. Direction indicator for motor vehicles. No. 1,422,005; July 4.
- Skelly, Samuel, Alameda, Calif. Clothes drier. No. 1,421,851; July 4.
- Slack, Albert R., San Antonio, Tex. Tool box. No. 1,421,732; July 4.
- Sletten, Anton L., Christiania, Norway. Internal-combustion engine. No. 1,421,594; July 4.
- Smallwood, Alfred, London, England. Furnace. No. 1,421,852; July 4.

ALPHABETICAL LIST OF PATENTEES.

- Smith, Charles, Providence, R. I. Easel for florists' use. No. 1,421,595; July 4.
- Smith, George L., Washington, D. C. Friction brake. No. 1,422,006; July 4.
- Smith, Raymond D., Boston, Mass., assignor to Shawmut Machine Works, Inc. Pull-socket switch. No. 1,421,583; July 4.
- Smith, William I., Gary, Ind. Chill. No. 1,421,596; July 4.
- Smith, F. L., Machine Company. (See Novick, Abraham, assignor.)
- Smythe, James, Dines, Wyo. Shoe-shining machine. No. 1,421,597; July 4.
- Snelling, Walter O., Allentown, Pa. Preparation of halogen compounds. No. 1,421,733; July 4.
- Soddy, Frederick, Oxford, England. Apparatus for purifying coal gas. No. 1,422,008; July 4.
- Soddy, Frederick, Aberdeen, Scotland. Method of stripping the illuminants from and of purifying coal-gas by means for charcoal. No. 1,422,007; July 4.
- Soden, Doris E. (See Rosamond, Arthur R., assignor.)
- Sorenson, Sigvard, assignor of one-half to A. Vollegraaf, St. Paul, Minn. Woodworking tool. No. 1,421,599; July 4.
- Sorrell, Samuel H., Ashland, Ala. Shaker grate. No. 1,421,598; July 4.
- Sparks, William, Jackson, Mich., assignor to Sparks-Withington Company, Cleveland, Ohio. Commutator. No. 1,421,734; July 4.
- Sparks-Withington Company. (See Sparks, William, assignor.)
- Speck, Clifford P., Oakland, Calif. Making confections. No. 1,421,600; July 4.
- Speck, Clifford P., Oakland, Calif. Confection mold. No. 1,421,601; July 4.
- Spector, Benjamin, and L. E. Rosenberg, Brooklyn, N. Y. Knitted cap. No. 1,421,602; July 4.
- Speiden, Eben C. (See Ladd, E. T., and Speiden.)
- Sperry, Elmer A., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic apparatus for torpedos. No. 1,421,854; July 4.
- Sperry Gyroscope Company, The. (See Sperry, Elmer A., assignor.)
- Spiro, Charles, New York, N. Y. Reflex camera. No. 1,421,735; July 4.
- Spiro, Charles, New York, N. Y. Curtain camera shutter. No. 1,421,736; July 4.
- Stahl, Max, assignor to The Wahl-Henius Research Laboratory, Chicago, Ill. Producing cereal beverages. No. 1,421,737; July 4.
- Staley, Joseph H., Columbus, Ind. Arbor press. No. 1,421,738; July 4.
- Stanchiffe, Cecil W., Toronto, Canada, assignor to Pneumometer Company, New York, N. Y. Manometer. No. 1,421,739; July 4.
- Standard Oil Company of California. (See Rafferty, William J., assignor.)
- Stanton, Howard M., Indianapolis, Ind. Means for supporting signs or similar articles. No. 1,421,603; July 4.
- Stearns-Roger Manufacturing Company. (See Dean, Charles L., assignor.)
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacture of esters. No. 1,421,604; July 4.
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Manufacturing esters. No. 1,421,605; July 4.
- Stevens, Harry M., Schenectady, N. Y., assignor to General Electric Company. Switch mechanism. No. 1,421,740; July 4.
- Stevens, M. T., & Sons Company. (See Stone, George, assignor.)
- Stevenson, Cecil V., assignor of five-eighths to T. E. Rofe, Sydney, New South Wales, and three-eighths to S. L. Varvel, Wairoanga, near Sydney, New South Wales, Australia. Fuel vaporizing and economizing apparatus. No. 1,421,606; July 4.
- Stiel, Carl F., St. Paul, Minn. Refrigerator attachment. No. 1,421,607; July 4.
- Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,421,855; July 4.
- St. John, William. (See Byers, Benjamin O., assignor.)
- Stoddard, James T., Portland, Oreg. Refuse burner. No. 1,421,741; July 4.
- Stone, Frank V., et al, trustees. (See Waterhouse, Harold D., assignor.)
- Stone, George, assignor of one-half to M. T. Stevens & Sons Company, North Andover, Mass. Drying machine. No. 1,421,856; July 4.
- Støre, Johan, Christiania, Norway. Constructing sub-aqueous concrete structures. No. 1,421,857; July 4.
- Straka, John, assignor of one-half to J. R. Lewis, Chicago, Ill. Magazine pencil. No. 1,421,742; July 4.
- Strickland, William R., East Cleveland, assignor to The Peerless Motor Car Company, Cleveland, Ohio. Combined spring horn and bumper support. No. 1,421,608; July 4.
- Stromberg-Carlson Telephone Manufacturing Company, The. (See Carlson, Gustaf, assignor.)
- Stuer, Bernhard C., and W. Grob, Anchen, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Manufacture of product from acetylene. No. 1,421,743; July 4.
- Sturm, Earl J., and M. Surnson, assignors of one-third to A. M. Bowman, Houston, Tex. Movable painter's platform. No. 1,421,609; July 4.
- Sturt, Alfred T., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Driving cleat mechanism for motor-vehicle driving wheels. No. 1,422,009; July 4.
- Styll, Harry H., Southbridge, Mass. Eye protector. No. 1,421,744; July 4.
- Summit Thread Company. (See Weaver, Lucius E., assignor.)
- Sun Motors Corporation. (See Wedig, John H., assignor.)
- Sundelius, Severus. (See Davidson, A. H., and Sundelius.)
- Surnson, Morris. (See Sturm, E. J., and Surnson.)
- Svehla, Martin J., Sutherland, Iowa. Game trap. No. 1,421,610; July 4.
- Svehla, Martin J., Sutherland, Iowa. Game trap. No. 1,421,611; July 4.
- Sykes, George, San Francisco, assignor of one-half to T. B. Blackburn and one-half to C. F. Potter, Los Angeles County, Calif. Load bracing and ventilating device for vehicles. No. 1,421,612; July 4.
- Takamine, Jokichi, Jr. (See Takamine, Jokichi and J. Jr.)
- Takamine, Jokichi, New York, N. Y., and Jokichi, Jr., Clifton, N. J. Treating textile and other fabrics, thread, yarn, and the like. No. 1,421,613; July 4.
- Taubman, Herman, Sturgeon Bay, Wis. Garment hanger. No. 1,421,614; July 4.
- Tauchar, Anton, Dunlo, Pa. Railway track construction. No. 1,422,010; July 4.
- Taylor, Jason C., Los Angeles, Calif. Sand delivery device for vehicles. No. 1,421,745; July 4.
- Taylor Machinery Company. (See Taylor, Thomas I., assignor.)
- Taylor, Thomas I., Newton, assignor to Taylor Machinery Company, Boston, Mass. Water gauge for automobile radiators. No. 1,421,615; July 4.
- Texas Gulf Sulfur Company. (See Davis, H. S., and Bacon, assignors.)
- Theed, William H. A., South Kensington, and A. T. Phillips, Hammersmith, England. Method of making liners for reinforcing the covers of pneumatic tires. No. 1,421,616; July 4.
- Thermokept Products Corporation. (See Willison, Walter W., assignor.)
- Thiede, Richard A., Camden, N. J. Ash sifter. No. 1,422,011; July 4.
- Thiemer, William H., assignor to The Peters Machine and Manufacturing Company, Cleveland, Ohio. Universal joint. No. 1,421,617; July 4.
- Thomas, Frank W., and M. D. Kimball, Pasadena, Calif. Vacuum oiling system. No. 1,421,858; July 4.
- Thompson, Fred H., and E. Holmes, assignors to The Willys-Overland Company, Toledo, Ohio. Automobile decking. No. 1,421,747; July 4.
- Thompson, John D., Rochester, N. Y. Printing frame. No. 1,421,859; July 4.
- Thorne, Harold, New York, N. Y. Door-securing device. No. 1,421,746; July 4.
- Thu, Martin, Bakersfield, Calif. Crank holder. No. 1,421,860; July 4.
- Thurston, Albert, London, England. Strip or sheet metal structure. No. 1,421,618; July 4.
- Tisch, George C. L., assignor to Tisch Machine & Tool Works, Elizabeth, N. J. Pin guard. No. 1,421,861; July 4.
- Tisch Machine & Tool Works. (See Tisch, George C. L., assignor.)
- Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole. No. 1,421,619; July 4.
- Trent Process Corporation. (See Trent, Walter E., assignor.)
- Trent, Walter E., assignor to Trent Process Corporation, Washington, D. C. Collecting and purifying minerals. No. 1,421,862; July 4.
- Trickett, Walter S., assignor to Hussong Dyeing Machine Company, Groveville, N. J. Yarn rack. No. 1,422,012; July 4.
- Truscou Steel Company. (See Kane, Thomas H., assignor.)
- Tunnell, Frederic H., Philadelphia, Pa. Apparatus for the extraction of glue, gelatine, and the like. No. 1,421,620; July 4.
- Turner, Douglas, assignor to Measuregraph Company, St. Louis, Mo. Lock for notching shears of measuring machines. No. 1,421,863; July 4.
- Turner, Hubert S., Washington, D. C. Telephony. No. 1,421,864; July 4.
- Turner, Laurence B., Cambridge, England. Thermionic apparatus applicable for wireless telegraphy and other purposes. No. 1,422,013; July 4.
- Turner, William R., et al. (See McFarland, William M., assignor.)
- U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)
- U. S. Industrial Alcohol Co. (See Whitaker, M. C., and Backhaus, assignors.)
- U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
- Underwood Typewriter Company. (See Johnson, Arthur A., assignor.)
- Union Special Machine Company. (See Hughes, Robert R., Jr., assignor.)

- United Shoe Machinery Corporation. (See Brothers, Eli, assignor.)
- United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
- United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
- United Shoe Machinery Corporation. (See Topham, Laurence E., assignor.)
- United States Cast Iron Pipe & Foundry Company. (See Lemoine, Louis R., assignor.)
- United States Fastener Company. (See Holmes, George A., assignor.)
- United States Fuse Corporation. (See Baker, Howard H., assignor.)
- Universal Car and Hose Coupler Company. (See di Le Compte, Onesime H., assignor.)
- Urquhart, William R., Los Angeles, Calif., C. W. Post, Akron, D. E. Humphrey, Cuyahoga Falls, and C. C. Van Arsdale, Akron, Ohio, assignors to The Goodyear Tire & Rubber Company, Akron, Ohio. Vulcanizing apparatus. No. 1,422,065; July 4.
- Vacuum Oil Company. (See Hooper, Charles L., assignor.)
- Vafiades, George, and J. Koukos, New York, N. Y. Fruit cutting and coring device. No. 1,422,066; July 4.
- Van Arsdale, Clarence C. (See Urquhart, W. R., Post, Humphrey, and Van Arsdale.)
- Van Etten, John C., Portland, Oreg. Toy aeroplane. No. 1,421,621; July 4.
- Van Ness, Norman J., Wysox Township, Bradford County, Pa. Strainer for milk cans, pails, and the like. No. 1,421,622; July 4.
- Van Westrum, Leonard S., Zurich, Switzerland. Making roads. (Reissue.) No. 15,401; July 4.
- Varvel, Sidney L., et al. (See Stevenson, Cecil V., assignor.)
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Flexible shaft and making same. No. 1,421,623; July 4.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Co., Hartford, Conn. Tachometer. No. 1,421,865; July 4.
- Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Turnbuckle. No. 1,421,866; July 4.
- Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)
- Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
- Vidaver, Maxwell, New York, N. Y. Machine for sealing and stamping envelopes. No. 1,421,867; July 4.
- Volkmer, Paul, Auckland, New Zealand. Sheet-straightening apparatus. No. 1,421,868; July 4.
- Vollegraaf, Arie. (See Sorenson, Sigvard, assignor.)
- Volos Manufacture Limited. (See McGill, Daniel, assignor.)
- Von Bramer, Harold, assignor to Eastman Kodak Company, Rochester, N. Y. Making hydrochinon. No. 1,421,869; July 4.
- Von Diezelski, Ernest L. B., New York, N. Y. Locking device for automobile-steering mechanisms. No. 1,421,870; July 4.
- Wagner, Christian H., Tiffin, Ohio. Tool. No. 1,421,871; July 4.
- Wahl-Henius Research Laboratory, The. (See Stahl, Max, assignor.)
- Waits, Spencer C., Pine Bluff, Ark. Safety crank for internal-combustion motors. No. 1,421,624; July 4.
- Walden, J. F. (See Brown, Robert J., assignor.)
- Waltham Watch Company. (See Marsh, Edward A., assignor.)
- Ward, Artemas. (See Giles, Harvey, assignor.)
- Ward, Clarence A., Brooklyn, N. Y. Paint and making same. No. 1,421,625; July 4.
- Warner Manufacturing Company. (See Cadman, Addi B., assignor.)
- Warnock, Amos W., assignor to Economic Steel Rack Company, Everett, Mass. Caster. No. 1,421,626; July 4.
- Waterhouse, Harold D., Quincy, Mass., assignor, by mesne assignments, to W. S. Crane, J. Crane, and F. V. Stone, trustees. Primer for internal-combustion engines. No. 1,421,627; July 4.
- Watkins, Dwight E., Galesburg, Ill. Sanitary waste basket. No. 1,421,628; July 4.
- Watkins, Herbert H., Homer, La. Oil pump. No. 1,421,629; July 4.
- Watkins, Maura F., Star Lime Works, Ky. Cultivator. No. 1,421,872; July 4.
- Watson, Harvey L., Indianapolis, Ind., assignor, by mesne assignments, to C. M. Hall Lamp Company, Detroit, Mich. Tilting reflector for motor vehicles. No. 1,421,630; July 4.
- Watts, Harry M., Shawnee, Okla. Toy aeroplane. No. 1,421,631; July 4.
- Waukesha Motor Company. (See Fisher, James B., assignor.)
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Adjunct for sewing-machine shuttles. No. 1,421,873; July 4.
- Weber, William G., Ridgefield Park, N. J., assignor to Kops Bros., New York, N. Y. Clasp. No. 1,421,874; July 4.
- Webster, William L., New York, N. Y. Toothbrush. No. 1,421,875; July 4.
- Wedig, John H., assignor, by mesne assignments, to Sun Motors Corporation, Granite City, Ill. Internal-combustion engine. No. 1,421,632; July 4.
- Weed, Edward L., assignor to Potter & Buffinton Company, Providence, R. I. Connecting ring. No. 1,421,876; July 4.
- Weidlich Bros. Mfg. Co., The. (See Weidlich, L., and Flauder, assignors.)
- Weidlich, Louis, and A. J. Flauder, assignors to The Weidlich Bros. Mfg. Co., Bridgeport, Conn. Incense burner and perfumer. No. 1,421,633; July 4.
- Weissheier, William, Brooklyn, N. Y. Nursing bottle and nipple protector. No. 1,421,877; July 4.
- Weltner, Corliss L., Looneyville, W. Va. Electric motor. No. 1,421,634; July 4.
- Wenger, Arthur W. (See Rodgers, C. M., and Wenger.)
- Wertheimberger, Enos, Laketon, Ind. Tractor. No. 1,421,635; July 4.
- Westly, Adolph C., Porter, Minn. Stock waterer. No. 1,421,636; July 4.
- Westerfield, Granville G., Indianapolis, Ind. Internal-combustion engine. No. 1,421,878; July 4.
- Western Felt Works. (See Paurot, Henry, Jr., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Schmidt, Henry F., assignor.)
- Wheeler, John A., Bloomington, assignor of one-tenth to E. M. Lash, Rialto Calif. Nut. No. 1,421,638; July 4.
- Wheeler, William I., Scottville, Ill. Speed-changing mechanism. No. 1,421,639; July 4.
- Whelan, Martin J., Clifton Heights, Pa. Freight car. No. 1,421,637; July 4.
- Whitaker, Milton C., New York, N. Y., and A. A. Backhaus, Baltimore, Md., assignors to U. S. Industrial Alcohol Co. Producing ethylene. No. 1,421,640; July 4.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Engine fuel. No. 1,421,879; July 4.
- White, Frank L., Memphis, Tenn. Cotton compress. No. 1,422,014; July 4.
- White, George H., Washington, D. C., assignor to G. P. Sacks, Bradley Hills, Md. Friction drive for milk tanks. No. 1,421,641; July 4.
- Whitney, Gilbert C., New York, N. Y. Railway-traffic controlling system. No. 1,421,880; July 4.
- Willard, Theodore A., Cleveland Heights, Ohio. Making storage-battery containers. No. 1,421,748; July 4.
- Williams, Benjamin S., Nashville, Tenn. Cake or biscuit cutter. No. 1,421,749; July 4.
- Williams, Charles H., and E. G. Busse, assignors to Chicago Railway Equipment Company, Chicago, Ill. Brake beam. No. 1,421,881; July 4.
- Williams, Edward H. (See Roeling, H. W., Williams, and Bauer.)
- Williams, Joseph F., De Funiak Springs, Fla. Crosscut-saw handle. No. 1,422,015; July 4.
- Williams, William E., Chicago, Ill. Cast wheel for automobiles. No. 1,421,643; July 4.
- Williams, William E., Chicago, Ill. Quick-detachable dust cap for pneumatic tires. No. 1,421,642; July 4.
- Willison, Walter W., Hastings, assignor to Thermokept Products Corporation, New York, N. Y. Treating vegetables in preparation for canning. No. 1,421,750; July 4.
- Wills, Childe H., Marysville, Mich. Bearing assembly. No. 1,421,644; July 4.
- Willys-Morrow Company, The. (See Knowles, Harford C., assignor.)
- Willys-Overland Company, The. (See Belden, Edward H., assignor.)
- Willys-Overland Company, The. (See Edwards, Henry J., assignor.)
- Willys-Overland Company, The. (See Harrington, William F., assignor.)
- Willys-Overland Company, The. (See Holmes, Edward, assignor.)
- Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
- Willys-Overland Company, The. (See Kamper, Edward, assignor.)
- Willys-Overland Company, The. (See Rhoads, Harry E., assignor.)
- Willys-Overland Company. (See Thompson, F. H., and Holmes, assignors.)
- Wilson, Donald S., Greenwich, Conn. Toilet case. No. 1,421,645; July 4.
- Wilson, Joseph H. (See Juergens, Edward F., assignor.)
- Wilson, Thomas H., Bramley, Leeds, England. Stamping machine for cutting out articles from sheet metal. (Reissue.) No. 15,402; July 4.
- Winans, Henry E., Belleville, Ill. Shell. No. 1,421,882; July 4.
- Winchester Repeating Arms Company. (See Humiston, Frederick L., assignor.)
- Winchester Repeating Arms Company. (See Miller, Louis A., assignor.)
- Winchester Repeating Arms Company, The. (See Pugsley, Edwin, assignor.)
- Wix, James A., Goldville, S. C. Loom rock-shaft bearing. No. 1,422,016; July 4.
- Wolf, Andrew. (See Maloney, Edward J., assignor.)
- Wolfe, Daniel D., assignor of one-half to H. Cohen, Washington, D. C. Shoe-shining parlor. No. 1,421,646; July 4.

ALPHABETICAL LIST OF PATENTEES.

Wolfs, Jean F., Newark, N. J. Caster. No. 1,421,647; July 4.
 Wolfson, Julius, Philadelphia, Pa. Electrically-operated valve of a gas burner or gas supply. No. 1,421,648; July 4.
 Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Page cut-off device for ink fountains. No. 1,422,017; July 4.
 Wood Newspaper Machinery Corporation. (See Nordfors, Conrad, assignor.)
 Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
 Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
 Wray, Edward T. (See Caulkins, Theodore P., assignor.)
 Wright, Charles W. (See Wright, George S. and C. W.)
 Wright, George S. and C. W., Philadelphia, Pa. Composition of matter for paving blocks, building blocks, and the like. No. 1,421,751; July 4.
 Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Insulating container and the like. No. 1,421,649; July 4.
 Wright, Wilbur L., assignor to Sealright Co., Inc., Fulton, N. Y. Paper-material container and the like. No. 1,422,018; July 4.

Wright, William W., Hollywood, Calif. Map holder. No. 1,421,883; July 4.
 Wubbolding, Leo F. (See Freyberg, J., and Wubbolding.)
 Wyckoff, David B. (See Wyckoff, Joseph E., assignor.)
 Wyckoff, Joseph E., Los Angeles, assignor of one-half to D. B. Wyckoff, Glendale, Calif. Life-saving fender. No. 1,421,650; July 4.
 Yohns, Paul, New York, N. Y. Pattern-transfer machine. No. 1,421,884; July 4.
 Young, Abraham, Montevideo, Minn. Air-brake pressure retainer. No. 1,421,651; July 4.
 Youngquist, John, Chicago, Ill. Phonograph. No. 1,421,652; July 4.
 Yunck, John A., South Orange, N. J. Alloy of refractory metals and forming same. No. 1,422,019; July 4.
 Zabriskie, Charles C., Highland Park, Mich. Car wheel. No. 1,421,653; July 4.
 Zak, John, Bergholz, Ohio. Sash-locking device. No. 1,422,020; July 4.
 Zalkind, Philip, New York, N. Y. Glue roll. No. 1,421,654; July 4.
 Zeis, Frank, Trenton, N. J. Derailing guard. No. 1,422,021; July 4.
 Zeiss, Firm of Carl. (See Henkers, Otto, assignor.)
 Ziegler, Charles F., Los Angeles, Calif. Sole tracker. No. 1,421,655; July 4.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adam, Harry C., St. Louis, Mo. Principal central body of a lighting fixture. No. 61,146; July 4.
 Adam, Harry C., St. Louis, Mo. Lighting fixture. No. 61,147; July 4.
 Berlin, Harry S., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic tire tread. No. 61,148; July 4.
 Blake, Joseph E., Gardner, Mass. Toy shackle. No. 61,149; July 4.
 Boucher, Henry H., Los Angeles, Calif. Solid rubber tire for vehicles. No. 61,150; July 4.
 Chase, Arthur E., Toledo, Ohio, assignor to Grand Council of the Ladies' Oriental Shrine of North America, Wheeling, W. Va. Emblem, badge, or button. No. 61,151; July 4.
 Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Textile fabric. No. 61,152; July 4.
 Farrell, Minnie M., Kansas City, Mo. Doll pincushion. No. 61,153; July 4.
 Fisk Rubber Company, The. (See Frank, Arthur A., assignor.)
 Fletcher, Helen M., San Francisco, Calif. Whirligig toy. No. 61,154; July 4.
 Forman Bassett Company, The. (See Kres, Charles, assignor.)
 Forman Bassett Company, The. (See Meyer Frank, assignor.)
 Frank, Arthur A., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. No. 61,155; July 4.
 Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Shoe heel. No. 61,156; July 4.
 Freeman, Dudley, Roxbury, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Sole or tap. No. 61,157; July 4.
 Gill, Stella A., Chatham, Mass. Toy windmill. No. 61,185; July 4.
 Golding Bros. Company. (See Dowling, William, assignor.)
 Grand Council of the Ladies' Oriental Shrine of North America. (See Chase, Arthur E., assignor.)
 Handley, Agnes P., Oakland, Calif. Doll. No. 61,158; July 4.
 Hayes, James A., New York, N. Y. Doll. Nos. 61,159-60; July 4.
 Hoelzer, William F., New Brunswick, and J. T. Johnson, Plainfield, N. J. Tire. No. 61,161; July 4.
 Howe, Francis G., Melrose, Mass. Broom holder. No. 61,162; July 4.
 Jaffe, Simon, Montreal, Quebec, Canada. Memorandum stand. No. 61,163; July 4.
 Johnson, John T. (See Hoelzer, W. F., and Johnson.)
 Johnson, John T., Plainfield, N. J., assignor to O. J. Kuhlke, Akron, Ohio. Tire. No. 61,164; July 4.

Kres, Charles, Cleveland, Ohio, assignor to The Forman Bassett Company. Safety paper. Nos. 61,165-6; July 4.
 Kuhlke, Otto J. (See Johnson, John T., assignor.)
 Kurfiss, Alexander W., assignor to J. W. Mashburn, Kansas City, Mo. Doll or statuette. No. 61,167; July 4.
 Lazerus, Joseph, Philadelphia, Pa. Swivel confection rack. No. 61,168; July 4.
 Lyon, Allen A., Belvidere, Ill. Vase. No. 61,169; July 4.
 Macomber, Lewis E., New York, N. Y., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. No. 61,170; July 4.
 Mashburn, John W. (See Kurfiss, Alexander W., assignor.)
 Mashburn, John W. (See Sisk, George W., assignor.)
 Mayer, Joshua W., New York, N. Y. Ring or similar article. Nos. 61,171-2; July 4.
 Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. Nos. 61,173-4; July 4.
 Nickerson, Gertrude L., assignor to The Warner Brothers Company, Bridgeport, Conn. Corset. No. 61,175; July 4.
 Panther Rubber Manufacturing Company. (See Freeman, Dudley, assignor.)
 Pittsburgh Lamp, Brass & Glass Company. (See Steffen, Adolf, assignor.)
 Richmond Lace Works. (See Smedley, Thomas H., assignor.)
 Seth Thomas Clock Co. (See Macomber, Lewis E., assignor.)
 Seth Thomas Clock Co. (See Weidman, Frederick A., assignor.)
 Sisk, George W., assignor to J. W. Mashburn, Kansas City, Mo. Doll or statuette. No. 61,176; July 4.
 Smedley, Thomas H., Long Eaton, England, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 61,177; July 4.
 Sonora, Inc. (See Wolff, Joseph, assignor.)
 Steffen, Adolf, assignor to Pittsburgh Lamp, Brass & Glass Company, Pittsburgh, Pa. Art metal shade frame. No. 61,178; July 4.
 Van Valin, William B., Los Angeles, Calif. Baseball-player doll. No. 61,180; July 4.
 Van Valin, William B., Los Angeles, Calif. Doll. No. 61,179; July 4.
 Victor Rubber Company, The. (See Berlin, Harry S., assignor.)
 Warner Brothers Company, The. (See Nickerson, Gertrude L., assignor.)
 Weidman, Frederick A., assignor to Seth Thomas Clock Co., Thomaston, Conn. Clock case. No. 61,181; July 4.
 White, May, Newport Beach, Calif. Dress apron. No. 61,182; July 4.
 Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora, Inc. Phonograph cabinet. No. 61,183; July 4.
 Wurm, Henry G., Yonkers, N. Y. Leather, wall paper, or similar article of manufacture. No. 61,184; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- Anzier Chemical Company, Boston, Mass. Refined petroleum for internal and external use as a remedy for disease. No. 21,224; renewed May 31, 1922.
- Ault Wiborg Company, The, Cincinnati, Ohio. Printers' and lithographers' ink. No. 21,933; renewed Nov. 8, 1922.
- Automatic Refrigerating Company, The, Hartford, Conn. Refrigerating systems and parts thereof. No. 156,580; July 4.
- Coldak Company, Springfield, Mass. Refrigerators. No. 156,581; July 4.
- Crescent Refractories Company, Curwensville, Pa. Fire brick and tile for metallurgical furnaces. Nos. 156,589-9; July 4.
- Burr, George H., et al., trustees and successors. (See Florence Manufacturing Company.)
- Dictator Fountain Pen Company, Inc., The, New York, N. Y. Fountain pens and lead pencils. No. 156,582; July 4.
- Eclipse Light Company, New York, N. Y., assignor to London Lightingwares Corporation. Certain electric fixtures. No. 156,592; July 4.
- Florence Manufacturing Company, Northampton, Mass.; New York, N. Y., and Chicago, Ill. F. N. Look, W. A. MacLeod, and G. H. Burr, trustees and their successors, doing business as Florence Manufacturing Company, assignees. Dentifrice. No. 21,733; renewed Sept. 13, 1922.
- Gangelhoff Bros., Minneapolis, Minn. Bed springs. No. 156,593; July 4.
- Goetz Gasket and Packing Company, North New Brunswick, N. J. Machinery packing of metal and asbestos. No. 156,594; July 4.
- Gordon & Co., London, England, assignor to Gordon's Dry Gin Co. Limited. Liquors and cordials. No. 21,734; renewed Sept. 13, 1922.
- Gordon's Dry Gin Co. Limited. (See Gordon & Co., assignor.)
- Hayden & Derby Mfg. Company, The, New York, N. Y., assignor to Manning, Maxwell & Moore, Inc. Stationary and locomotive injectors and ejectors. No. 21,221; renewed May 31, 1922.
- Hoffman, Stephen R., Brooklyn, N. Y. Watches, dials, movements and parts thereof and watchcases. No. 156,595; July 4.
- Hohlfeld Manufacturing Company, Philadelphia, Pa. Terry-cloth and terry-bath-robing piece goods, cloth towels, wash rags, etc. No. 156,588; July 4.
- Imperial Paint Company. (See Wood, George L., & Son, assignor.)
- Keyless Auto Clock Company, New York, N. Y. Clocks. No. 156,596; July 4.
- Look, Frank N., et al., trustees and successors. (See Florence Manufacturing Company.)
- Ludwig & Ludwig, Chicago, Ill. Certain musical, percussion, and similar instruments. No. 156,597; July 4.
- McClintock, O. B., Company, Minneapolis, Minn. Electric burglar alarms and housings, timer cases, and relays therefor. No. 156,598; July 4.
- MacLeod, William A., et al., trustees and successors. (See Florence Manufacturing Company.)
- Manning, Maxwell & Moore, Inc. (See Hayden & Derby Mfg. Company, The, assignor.)
- Marlin Firearms Corporation, The, New Haven, Conn. Rifles and shotguns. No. 156,584; July 4.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk in the piece. No. 156,585; July 4.
- Muser Brothers, New York, N. Y. Silk in the piece. No. 156,586; July 4.
- National Carbon Company, Inc., New York, N. Y. Portable electric lights and dry batteries. No. 156,599; July 4.
- Padua "Hold-Up" Alarm Corporation, Albany, N. Y. Hold-up alarms. No. 156,600; July 4.
- Reliable Electric Company, Chicago, Ill. Certain electrical supplies. No. 156,601; July 4.
- Rosenfeld, E. & Co., Baltimore, Md. Night robes. No. 21,359; renewed June 28, 1922.
- Sassafras Eye Lotion Co., Mauch Chunk, Pa. Eye lotion. No. 20,890; renewed Mar. 22, 1922.
- Schaefer, F. & M., Brewing Co., The, New York, N. Y. Lager beer. No. 21,004; renewed Apr. 19, 1922.
- Taylor, N. & G., Co., Philadelphia, Pa., assignor to N. & G. Taylor Co., Incorporated. Roofing tin. No. 20,563; renewed Jan. 5, 1922.
- Taylor, N. & G., Co. Incorporated. (See Taylor, N. & G., Co., assignor.)
- Trumbull-Vanderpoel Electric Manufacturing Co., Bantam, Conn. Electric safety switches. No. 156,603; July 4.
- Tuckett Tobacco Company, Limited, The, Hamilton, London, and Montreal, Canada. Smoking tobacco, cigars, and cigarettes. No. 156,602; July 4.
- Watterson, Arthur M., Omaha, Nebr. Memorandum devices. No. 156,587; July 4.
- Wood, George L., & Son, Brooklyn, N. Y., assignor to Imperial Paint Company. Varnishes. No. 20,919; renewed Mar. 29, 1922.
- Woolson, Clifford G., Newark, N. J., and New York, N. Y. Sectional burned-clay pipe covering for exposed piping of all kinds. No. 156,604; July 4.
- Wolton, Chas., New York, N. Y. Hair nets. No. 156,588; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- Anderson & Nelson, Brockton, Mass. "Select." (For Canned Vegetables—Namely, Tomatoes.) No. 24,612; July 4.
- Ap-Pel-Line Medicine Company. (See Rohlfing, Louis C.)
- Arle, Joseph, Two Rivers, Wis. "Arle's Victory Polish." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) No. 24,613; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's Halloween Hats." (For Packages Containing Halloween Hats.) No. 24,621; July 4.
- Beistle Company, The, Shippensburg, Pa. "Halloween Party Table Decorations." (For Packages Containing Table Decorations for a Halloween Party.) No. 24,622; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's Halloween Hats." (For Packages Containing Halloween Hats.) No. 24,623; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's Halloween Hat Masks." (For a Package of Hat Masks.) No. 24,624; July 4.
- Beistle Company, The, Shippensburg, Pa. "Beistle's—Christmas Decorations for the Home." (For a Package of Christmas Decorations.) No. 24,625; July 4.
- Benson Products Co., New Rochelle, N. Y. "Fire-Chief The Infallible Fire Extinguisher." (For a Jar of Fire-Extinguisher Liquid.) No. 24,626; July 4.
- Broshears, A. A., doing business as the Monument Ink Company, Indianapolis, Ind. "Monument Writing Fluid." (For Inks, Known as Writing and Copying Fluid.) No. 24,627; July 4.
- California Olive Association, Los Angeles, Calif. "Certified." (For Olives.) No. 24,628; July 4.
- Carter, Thomas, & Sons, Inc., New York, N. Y. "The Country Gentleman Handkerchief." (For Boxes Containing Handkerchiefs.) No. 24,629; July 4.
- Children's Shoe Workers' Union of New York State, The, New York, N. Y. "The Children's Shoe Workers' Union of New York State." (For Children's Shoes.) No. 24,631; July 4.
- Cohen, Syma, Chicago, Ill. "Lady Esther Four Purpose Cream." (For Face Cream.) No. 24,630; July 4.
- Collins, J. N., Company, Minneapolis, Minn. "Walnettos." (For Candy—Namely, Caramels.) Nos. 24,632-3; July 4.
- Crown Brewing Co. Inc., The, Cincinnati, Ohio. "Happy Days." (For a Beverage.) No. 24,634; July 4.
- Delico Products Company, Sheridan, Wyo. "Delico Dips." (For Chocolate-Coated Frozen Confections.) No. 24,635; July 4.
- Frankel, B., Company, The, New York, N. Y. "Admiration." (For Envelopes Containing Hair Nets.) No. 24,636; July 4.
- Frankel, B., Company, The, New York, N. Y. "Fenway." (For Envelopes Containing Hair Nets.) No. 24,637; July 4.
- Frankel, B., Company, The, New York, N. Y. "Yankee Girl." (For Envelopes Containing Hair Nets.) No. 24,638; July 4.
- Frankel, B., Company, The, New York, N. Y. "Peggy." (For Envelopes Containing Hair Nets.) No. 24,639; July 4.
- Frankel, B., Company, The, New York, N. Y. "Lion Brand." (For Envelopes Containing Hair Nets.) No. 24,640; July 4.
- Frankel, B., Company, The, New York, N. Y. "Firefly." (For Envelopes Containing Hair Nets.) No. 24,641; July 4.
- Frozen Fruit, Inc., Harrisburg, Pa. "'Honey-Like' Coconut Showers." (For Candy and Confections.) No. 24,642; July 4.

Frozen Fruit, Inc., Harrisburg, Pa. "Cocoanut Showers 'Honey-Like.'" (For Candy and Confections.) No. 24,643; July 4.

Glemby's, S., Sons Co., Inc., New York, N. Y. "The Iris Hair Net." (For Hair Nets.) No. 24,644; July 4.

Glemby's, S., Sons Co., Inc., New York, N. Y. "Kismet Hair Net." (For Hair Nets.) No. 24,645; July 4.

Glemby's, S., Sons Co., Inc., New York, N. Y. "Swannette Hair Net." (For Hair Nets.) No. 24,646; July 4.

Goldberg, S., & Company, Newark, N. J. "Puncher De Luxe." (For Boxes Containing Cigars.) No. 24,647; July 4.

Green & Company, Chicago, Ill. "Satisfaction." (For Eggs.) No. 24,648; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Toilet Soap.) No. 24,614; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Depilatory." (For Preparation for Removing Hair.) Nos. 24,615-6; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Toilet Soap.) No. 24,617; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Brilliantine." (For Hair Preparation.) No. 24,618; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Complexion Balm." (For a Lotion for Beautifying the Skin.) No. 24,619; July 4.

Harriet Hubbard Ayer, New York, N. Y. "Princess Charming." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) No. 24,620; July 4.

H. R. F. Co., San Francisco, Calif. "Lasting Lustrous The Perfect Polish." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) No. 24,649; July 4.

Jern Food Company, College View, Nebr. "O. K. Eto Crisps." (For Health Wafers.) No. 24,650; July 4.

Johnston, Robert A., Company, Milwaukee, Wis. "Choice Box." (For Packages of Confectionery.) No. 24,651; July 4.

Mile-A-Minute, Incorporated, Pittsburgh, Pa. "Mile-A-Minute." (For Carbon Remover and Preventer.) No. 24,652; July 4.

Monument Ink Company. (See Broshears, A. A.)

Morris, Mann & Reilly, Inc., Chicago, Ill. "M. M. R's Red Seal Hair Net." (For Hair Nets.) No. 24,653; July 4.

National Pepsin Gum Co., San Francisco, Calif. "Selby's Fleur Kiss Chewing Gum." (For Packages Containing Chewing Gum.) No. 24,654; July 4.

Nekritz, Jacob L., Brooklyn, N. Y. "P S G Co. Stove Gloss." (For a Stove Gloss Preparation.) No. 24,655; July 4.

Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Thorobread." (For Bread.) No. 24,656; July 4.

Newbill, T. J., La Grange, Ill. "Vit-A-Mine Line Foods." (For Vit-A-Mine Line Foods.) No. 24,657; July 4.

Northern Paper Mills, Green Bay, Wis. "Red Poppy." (For a Wrapper for Toilet-Paper Rolls.) No. 24,658; July 4.

Northern Paper Mills, Green Bay, Wis. "Yellow Bird." (For a Wrapper for Toilet-Paper Rolls.) No. 24,659; July 4.

Northern Paper Mills, Green Bay, Wis. "Northern Cabinet Tissue." (For a Wrapper for Packages of Toilet Paper.) No. 24,660; July 4.

Northern Paper Mills, Green Bay, Wis. "Green Leaf." (For a Wrapper for Toilet-Paper Rolls.) No. 24,661; July 4.

Northern Paper Mills, Green Bay, Wis. "Northern Bear." (For a Wrapper for Toilet-Paper Rolls.) No. 24,662; July 4.

Northern Paper Mills, Green Bay, Wis. "Bonnie." (For a Wrapper for Toilet Paper Rolls.) No. 24,663; July 4.

Northern Paper Mills, Green Bay, Wis. "Purple Feather." (For a Wrapper for Toilet-Paper Rolls.) No. 24,664; July 4.

Northern Paper Mills, Green Bay, Wis. "Drytex." (For a Wrapper for Folded Paper Towels.) No. 24,665; July 4.

Nuss Confectionery Company, The, Cincinnati, Ohio. "Indian Corn Candy." (For Butter Cream Confections—Namely, Indian Corn Candy.) No. 24,666; July 4.

Omez Pharmacal Co., Denver, Colo. "Asp-Rin-Lax." (For Cold Tablets.) No. 24,667; July 4.

O'Neill, J. A., Crozet, Va. "Virginia Mountain Peaches, Mad Run Brand." (For Packages Containing Peaches.) No. 24,668; July 4.

Oscar Hair Restoring Company, Scranton, Pa. "The Chertok-Bodak Hair Saver." (For a 4-oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) No. 24,669; July 4.

Paper Specialty Company, Wausau, Wis. "Parasilk." (For Toilet Paper.) No. 24,670; July 4.

Pennsylvania Sugar Company, Philadelphia, Pa. "Pen-Jel." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly-Making Material.) No. 24,671; July 4.

Prince, Irving, doing business as Play Ball Manufacturing Company, New York, N. Y. "Play Ball." (For Games.) No. 24,672; July 4.

Play Ball Manufacturing Company. (See Prince, Irving.)

Realgood Corporation, The, Atlanta, Ga. "Realgood." (For Hosiery.) No. 24,673-4; July 4.

Regus, Henry J., New Orleans, La. "Brownie Krust." (For Bread.) No. 24,675; July 4.

Riddle-McElwain Co., Sabinal, Tex. "Golden Glow Butter." (For Butter.) No. 24,676; July 4.

Rohlfing, Louis C., doing business as the Ap-Pel-Line Medicine Company. "Ha-Lo Antiseptic Cylinders Antiseptic, Healing, Deodorant, Prophylactic." (For Medicinal Preparations for Female Diseases.) No. 24,677; July 4.

Sano Remedy Company, Cleveland, Ohio. "Sano." (For a Rheumatic Remedy and System Tonic.) No. 24,678; July 4.

Savem Economy Products Co., East Boston, Mass. "Savem." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) Nos. 24,679-80; July 4.

Schall's Inc., Clinton, Iowa. "Chocolate Pic." (For Candy.) No. 24,681; July 4.

Schwind Laboratory, The, Le Mars, Iowa. "Dr. Schwind's Rose Healing Salve." (For Salve.) No. 24,682; July 4.

Scalafani & Sons, New York, N. Y. "El Fani." (For Boxes Containing Cigars.) No. 24,683; July 4.

Simmons, Felix, doing business as Styls Silk Hosiery Co., Worcester, Mass. "Styla." (For Boxes Containing Hosiery.) No. 24,684; July 4.

Small, L. K., Company, Los Angeles, Calif. "Sweetie." (For Oranges.) No. 24,685; July 4.

Standard Laboratories, Inc., Los Angeles, Calif. "Stacomb." (For Hair Pomade.) No. 24,686; July 4.

Steel, L. R., Company, Inc., Buffalo, N. Y. "Jane Drew." (For Candies.) No. 24,687; July 4.

Styla Silk Hosiery Co. (See Simmons, Felix.)

Sweet Candy Company, Salt Lake City, Utah. "Sweet's Lady Claire Chocolates." (For Chocolate.) No. 24,688; July 4.

Sweet, William H., Company, The, Columbus, Ohio. "Wafer-Lax." (For a Carton which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) No. 24,689; July 4.

Theard, Thomas A., Indianapolis, Ind. "Cyclone Cleaner." (For a Cleaning Compound.) No. 24,690; July 4.

Virden Packing Company, South San Francisco, Calif. "Virden's Thrift." (For Cooked Corn Beef.) No. 24,691; July 4.

Wahl, M., & Son, New York, N. Y. "Lady Jane." (For Hair Nets.) No. 24,692; July 4.

Zinsmaster, M., Des Moines, Iowa. "Husky Graham Bread." (For Bread.) No. 24,693; July 4.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Boston Piano Co., Chicago, Ill. "Pianos! Pianos!" (For Advertising Purposes for Pianos.) No. 6,195; July 4.

Boston Piano Co., Chicago, Ill. "Factory Pianos." (For Advertising Purposes for Pianos.) No. 6,196; July 4.

Boston Piano Co., Chicago, Ill. "Alteration Piano Sale." (For Advertising Purposes for Pianos.) No. 6,197; July 4.

Earl, Grace D., Chicago, Ill. "Jiffe." (For Advertising Purposes for Nail Polish.) No. 6,198; July 4.

Estey Organ Co., Brattleboro, Vt. "The Estey Residence Pipe Organ." (For Advertising Purposes for The Estey Residence Pipe Organ.) No. 6,199; July 4.

Haynes Automobile Company, The, Kokomo, Ind. "The New Improved Seven Passenger Haynes 75 Touring Car." (For Advertising Purposes for Automobiles.) No. 6,200; July 4.

Monroe Calculating Machine Co., New York, N. Y. "Makes All Figuring as Easy as Turning the Crank." (For Advertising Purposes for Monroe Calculating Machines.) No. 6,201; July 4.

Murphy, Frank G., Mason City, Iowa. "Beauty Brows." (For Advertising Purposes for Eyeglasses and Spectacles.) No. 6,202; July 4.

National Paper & Type Co., The, New York, N. Y. "Eldorado Brand Typewriter Ribbons Non-Filling and Durable." (For Advertising Purposes for Eldorado Typewriter Ribbons.) No. 6,203; July 4.

Rauh & Mack Shirt Co., Cincinnati, Ohio. "Macks! Mum." (For Advertising Purposes for Shirts.) No. 6,204; July 4.

Saxe, William W., Boston, Mass. "Polar Patties." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) No. 6,205; July 4.

Steinfeld Bros., New York, N. Y. "Jiffy Folding Card Table De Luxe." (For Advertising Purposes for Folding Card Tables.) No. 6,206; July 4.

Union Piano Co., Chicago, Ill. "Piano Sale." (For Advertising Purposes for Pianos.) Nos. 6,207-8; July 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Aachener Thermalwasser "Kaiserbrunnen" Aktiengesellschaft, Aachen, Aix-la-Chapelle, Germany. Drinking salt, bath salt, pastils containing spring salts, etc. No. 155,467; July 4.
- A-B-C Auto Radiator Works. (See Shapiro, Charles H.)
- Ackswell Mfg. & Sales Co. Inc., Northport, N. Y. Oil valves. No. 145,601; July 4.
- Advertiser's Art Studios, Inc., The, Washington, D. C. Advertising letter folders. No. 163,072; July 4.
- Allman, Walter R., Cleveland, Ohio. Pictures and cartoons published in newspapers and magazines. No. 161,952; July 4.
- Aluminium Walzwerke A.-G., Schaffhausen, Switzerland. Boxes and vases made of aluminium. No. 138,800; July 4.
- Alys. (See Wildes, Alice S.)
- American Cellulose & Chemical Manufacturing Company, Ltd., New York, N. Y. Powder consisting of cellulose acetate or cellulose esters, or cellulose ethers with other ingredients and which is used in the manufacture of moldings or casings, etc. No. 161,221; July 4.
- American Chair Company, Sheboygan, Wis. Household chairs, rockers, tables, beds, dressers, desks, and fiber office furniture. No. 159,195; July 4.
- American Fastener Company, The, Waterbury, Conn. Snap fasteners. No. 160,107; July 4.
- American Writing Paper Company, Holyoke, Mass. Writing and printing papers. Nos. 157,293-4; July 4.
- Antonsen, Kai, Chicago, Ill. Mattress soft drinks and sirups for making same. No. 160,528; July 4.
- A. O. J. Tool Company, Coldwater, Mich. Shock pneumatic tools and hand tools. No. 156,945; July 4.
- Associated Editors, Chicago, Ill. Section of a daily, weekly, or monthly periodical devoted to games. No. 158,410; July 4.
- Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. Nos. 163,073-4; July 4.
- Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. No. 163,076; July 4.
- Atwood Machine Company, The, Stonington, Conn. Wind-up frames. No. 158,556; July 4.
- Atwood Machine Company, The, Stonington, Conn. Reel mills. No. 158,558; July 4.
- B. B. Culture Laboratory, Inc., Yonkers, N. Y. Culture of lacti bacilli for medicinal use in gastro-intestinal disorders. No. 160,584; July 4.
- Bacheller, Melville C., Grand Forks, N. Dak. Benches other than workbenches. No. 149,168; July 4.
- Bell Syndicate, Inc., The, New York, N. Y. Series of cartoons. No. 163,214; July 4.
- Berg, Frederick O., doing business as the F. O. Berg Company, Spokane, Wash. Shelter tents of canvas or other fabrics. No. 159,785; July 4.
- Binder Brothers, Inc., New York, N. Y. Monthly publications. No. 164,096; July 4.
- Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabric in the piece. No. 162,477; July 4.
- Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics in the piece. Nos. 163,079-81; July 4.
- Bok-A-Bel Medicine Co., The. (See Taylor, Charles G.)
- Bonar-Phelps Company, New York, N. Y. Hats for men. No. 150,957; July 4.
- Boston & Lockport Block Company, Boston, Mass. Pulleys or blocks. Nos. 152,459-60; July 4.
- Bowman, Glenn F., and Charles F. C. Arensberg, Pittsburgh, Pa. Dentifrice. No. 159,840; July 4.
- Bowser, S. F., & Company, Inc., Fort Wayne, Ind. Dispensers and measuring pumps and meters for liquid fuels and lubricants. No. 161,165; July 4.
- Breier's, Marcus, Sons, New York, N. Y. Clothing. No. 155,596; July 4.
- Buffalo Optical Company, Inc., Buffalo, N. Y. Glass paper-weights shaped to form optical lenses. No. 162,282; July 4.
- Buckner Process Company, Worcester, Mass. Textile belting. No. 159,993; July 4.
- Burbans, Robert, Jr., Los Angeles, Calif. Insulating powder used in building construction, etc. No. 147,229; July 4.
- Burnham, E., Inc., Chicago, Ill. Deodorant. No. 160,461; July 4.
- Burnham, E., Inc., Chicago, Ill. Hair remover. No. 160,463; July 4.
- Burnham, E., Inc., Chicago, Ill. Hair tonic relieving excessive oil. No. 160,464; July 4.
- Burnham, E., Inc., Chicago, Ill. Face powder. No. 160,470; July 4.
- Burnham, E., Inc., Chicago, Ill. Brilliantine. No. 160,471; July 4.
- Burnham, E., Inc., Chicago, Ill. Facial cream. No. 160,478; July 4.
- Burnham, E., Inc., Chicago, Ill. Talcum powder. No. 160,460; July 4.
- Burnham, E., Inc., Chicago, Ill. Liquid face powder. No. 160,465; July 4.
- Burnham, E., Inc., Chicago, Ill. Preparation for crows-feet. No. 160,467; July 4.
- Burnham, E., Inc., Chicago, Ill. Shampoo. No. 160,468; July 4.
- Burnham E., Inc., Chicago, Ill. Preparation for chapped hands. No. 160,469; July 4.
- Burnham, E., Inc., Chicago, Ill. Perfume, toilet water, sachets, and other toilet preparations. No. 160,472; July 4.
- Burnham, E., Inc., Chicago, Ill. Hot preparation used in oil scalp treatments. No. 160,476; July 4.
- Burrowes, E. T., Company, The, Portland, Me. Short ladder of the type known as stepladder. No. 161,526; July 4.
- Burton-Dixie Corporation, Chicago, Ill. Comforters. No. 159,554; July 4.
- Burton-Dixie Corporation, Chicago, Ill. Mattresses, cushions, pads, beds, etc. No. 154,634; July 4.
- Camden Anchor-Rockland Machine Co., Camden, Me. Marine and stationary internal-combustion motors and carburetors. No. 143,743; July 4.
- Cardinal Silk Company, Scranton, Pa. Silk piece goods. No. 161,873; July 4.
- Carlsbad Vegetable Growers Association, Carlsbad, Calif. Fresh vegetables. No. 158,292; July 4.
- Carpenter, Geo. B., & Co., Chicago, Ill. Cotton waste. Nos. 161,226-32; July 4.
- Carrosserie Van Den Plas, Société Anonyme, Brussels, Belgium. Motor-car bodies, parts, and accessories. No. 158,704; July 4.
- Carter Motor Accessories, Inc., Buffalo, N. Y. Oil gauges. No. 161,819; July 4.
- Cheramy, Inc., New York, N. Y. Perfumes, toilet waters, face and toilet powders, sachets, etc. No. 159,499; July 4.
- Collins Company, The, Collinsville, Conn. Agricultural implements, cutlery and edge tools and machinists' tools. No. 156,778; July 4.
- Colony Mills, Inc., New York, N. Y. Cotton piece goods, drapery fabrics of cotton, silk, etc. No. 161,917; July 4.
- Counord, Joseph, Talence, near Bordeaux, France. Tonic wine used for anæmia, convalescence, low vitality, and as a general tonic. No. 159,790; July 4.
- Crescent Company, The, Tarr, Pa. Unsweetened evaporated milk. No. 157,914; July 4.
- Crofts & Reed Co., Chicago, Ill. Toilet soaps. No. 160,114; July 4.
- D. A. Newcomer Company, Los Angeles, Calif. Trailers for motor vehicles. No. 162,484; July 4.
- Davies, Charles T., Reading, Pa. Hosiery. No. 159,014; July 4.
- De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, hook and eye tape and safety pins. No. 162,164; July 4.
- Denels, Robert, doing business as "Robert," New York, N. Y. Hair nets. No. 162,535; July 4.
- Denzer & Nathan, Inc., New York, N. Y. Piece goods manufactured from cotton or other fiber. No. 162,102; July 4.
- Detroit Brass & Malleable Works, Detroit, Mich. Brass valves and cocks, gas appliances, etc. No. 153,649; July 4.
- Devon Manufacturing Company, Inc., Brooklyn, N. Y. Play suits and overalls. No. 158,606; July 4.
- Diack Bros., Troy, N. Y. Hair, clothes, and shoe brushes. No. 160,001; July 4.
- Diamond Braiding Mills, Chicago Heights, Ill. Shoe laces. No. 161,114; July 4.
- Dietz, R. E., Company, New York, N. Y. Glass globes for lanterns. No. 161,768; July 4.
- Dodge Sales & Engineering Co., Mishawaka, Ind. Stamped steel pulleys. No. 123,631; July 4.
- Duplex Products Co. (See Krusch, William T.)
- Duraflex Company, The, Baltimore, Md. Plastic floor covering to be applied with a trowel. No. 158,522; July 4.
- Dutton, E. P., & Co., New York, N. Y. Printed books published in series. Nos. 163,141-2; July 4.
- Eckenroth Valve and Manufacturing Co., Philadelphia, Pa. Metallic valves. No. 161,120; July 4.
- Eggens-Hamblen Company, Elizabeth, N. J., and New York, N. Y. Fountain pens, stylographic pens, and pencils. No. 162,672; July 4.
- Ellis, Eugene, C., Inc., New Orleans, La. Cotton piece goods. No. 160,338; July 4.
- Evans Cigarette & Metal Works, Ltd., London, England. Pocket cigarette-rolling machines. No. 139,790; July 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Fabig, Robert, Gesellschaft mit beschränkter Haftung, Maschinen-u. Apparate-Fabrik, Neuruppin, Germany. Typewriting machines and parts thereof. No. 153,594; July 4.
- Filice & Perrelli Canning Co., Gilroy, Calif. Canned vegetables and fruits. No. 158,301; July 4.
- Fimmel, Elizabeth, North Branch, N. J. Salve or ointment. No. 156,271; July 4.
- Fox River Paper Company, Appleton, Wis. Writing paper and ledger. No. 161,002; July 4.
- Fulton, Frederick F., doing business as Oilrol Piston Ring Co., Philadelphia, Pa. Piston rings. No. 160,882; July 4.
- Gadomski Bros., Jersey City, N. J. Healing compound for sores and wounds. No. 153,243; July 4.
- Garity, L. M., & Co. Inc., Boston, Mass. Hair wavers, curlers, and crimpers. No. 162,402; July 4.
- Geneva Tackle Co., Geneva, N. Y. Fishing spoons. No. 163,150; July 4.
- George Matthew Adams Service, The, New York, N. Y. Series of cartoons. No. 131,719; July 4.
- Gillette Safety Razor Company, Boston, Mass. Safety razors. No. 147,192; July 4.
- Goodspeed, Charles A., doing business as The Remind-O-Meter Company, Highland Park, Mich. Hand-operated counting registers. No. 159,237; July 4.
- Greaney, Thomas E., doing business as Standard Neckwear Company, Boston, Mass. Neckties. No. 154,311; July 4.
- Gref & Schmidt. (See Henckels, J. A., assignor.)
- Gribbon Company Inc., New York, N. Y. Cotton handkerchiefs. No. 162,335; July 4.
- Grumbacher, Max, New York, N. Y. Artists' brushes. No. 161,085; July 4.
- Guild Products Corporation, Philadelphia, Pa. Blank books, loose-leaf-ledger binders, loose-leaf sheets, stenographers' notebooks, etc. No. 159,752; July 4.
- Hale Bros., Inc., San Francisco, Calif. Tablecloths and napkins. No. 158,712; July 4.
- Hamoos Limited, London, England. Hair wash, shampoo powders, perfumery powders, etc. No. 158,313; July 4.
- Hauser & Weil, New York, N. Y. Belts for men, women, and children. No. 159,034; July 4.
- Haves, James A., New York, N. Y. Dolls. No. 161,049; July 4.
- Hays-Raden Company, Philadelphia, Pa. Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. No. 159,357; July 4.
- Henckels, J. A., assignor to Gref & Schmidt, Inc., New York, N. Y. Cutlery. No. 153,980; July 4.
- Hockmeyer Bros., New York, N. Y. Cotton piece goods—viz, corduroy. No. 162,254; July 4.
- Hooven & Allison Company, The, Xenia, Ohio. Sisal and manila ropes. No. 146,549; July 4.
- Ho-Ro-Co Manufacturing Company, St. Louis, Mo. Talcum complexion, and depilatory powders, petroleum jelly, almond, cold, vanishing, and massage creams, etc. No. 159,314; July 4.
- Hovland Flour Mills Company, Kansas City, Mo. Wheat flour. Nos. 160,346-7; July 4.
- Hoyland Flour Mills Company, Kansas City, Mo. Wheat flour. No. 160,349; July 4.
- Hudson Bay Fur Company. (See Silbert, Harry.)
- Ingersoll, William H., New York, N. Y. Pencils. No. 161,780; July 4.
- Injun Washing Powder. (See Kihn, August E.)
- International Vending Machines Ltd., Montreal, Quebec, Canada. Vending machines. No. 157,317; July 4.
- Jacobson, Albert E., New York, N. Y. Photographic prints. No. 152,849; July 4.
- Jalco Motor Company, The. (See Long, J. A., Company.)
- Jeanie, Bert, Incorporated, Los Altos, Calif. Canned fruits and vegetables, nuts in their natural state, honey, jelly, etc. No. 156,352; July 4.
- John Wauamaker, Philadelphia, Philadelphia, Pa. Soaps. No. 156,727; July 4.
- Jones, Elwood, New York, N. Y. Lumber. No. 162,491; July 4.
- Kelley & Corwin, New York, N. Y. Toy telephones. No. 163,448; July 4.
- Kendall Products Corporation, New York, N. Y. Soap powders. Nos. 158,985-6; July 4.
- Kiboury, Abraham, Manchester, N. H. Medicine for hemorrhagia, metrorrhagia, backache, and menstrual fever. No. 159,511; July 4.
- Kihn, August E., doing business as Injun Washing Powder, Philadelphia, Pa. Washing powder. No. 160,414; July 4.
- Klaine, F. A., Company, The, Cincinnati, Ohio. Coal, coke, wood, and gas stoves. No. 157,838; July 4.
- Kleinert, I. B., Rubber Company, New York, N. Y. Baby pants. Nos. 158,680-1; July 4.
- Knickerbocker Case Company, Chicago, Ill. Cases and bags for holding fishing material. No. 152,356; July 4.
- Kohnstamm, H., & Co., Inc., New York, N. Y. Hat and cold cover for laundry purposes and in treating textiles. No. 160,709; July 4.
- Krueger, Tobin Co., Inc., New York, N. Y. Infant's hospital. No. 158,395; July 4.
- Krusch, William T., doing business as Duplex Products Co., Norwalk, Conn. Shampoo cream. No. 160,066; July 4.
- Laboiteaux, C. L., Company, The, Cincinnati, Ohio. Straw-board, box board, binder's board, etc. No. 143,544; July 4.
- Lamson Brothers Co., The, Toledo, Ohio. Toilet soaps. No. 158,190; July 4.
- Lane Brothers Company, Boston, Mass. Leather and felt shoes and shoes of combination of leather and rubber. No. 155,210; July 4.
- Landenberger, Charles H., Philadelphia, Pa. Brooders and hovers. No. 162,828; July 4.
- Langley & Michaels Co., San Francisco, Calif. Soda fountains, carbonators, and soda-fountain machinery. No. 158,322; July 4.
- Leon, Albert E., Belmont, Mass. Antifriction bearings, shafts, arbors, and bearing parts. No. 149,408; July 4.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 163,092; July 4.
- Lewis, L. H., Company, Dallas, Tex. Hosiery. No. 155,412; July 4.
- Liebmans, S., Sons, Inc., New York and Brooklyn, N. Y. Malt soft drink. No. 160,499; July 4.
- Lindenbush Manufacturing Co., Lindenbush, N. Y. Horn buttons. No. 159,097; July 4.
- Lindborg Milling & Elevator Co., Lindsborg, Kans. Wheat flour. No. 147,727; July 4.
- Lipschitz, R., & Sons, New York, N. Y. Hosiery, underwear, and sweaters of knitted fabric. No. 154,226; July 4.
- Little Giant Company, Mankato, Minn. Machine for measuring weight or pull. No. 160,714; July 4.
- Loff, Incorporated, New York, N. Y. Candles. No. 158,878; July 4.
- Long, J. A., Company, doing business as The Jalco Motor Company, Portland and Union City, Ind. Cream testers. No. 162,347; July 4.
- Lord & Taylor, New York, N. Y. Pyjamas. No. 155,506; July 4.
- Lord & Taylor, New York, N. Y. Pyjamas. No. 155,508; July 4.
- Ludlow Manufacturing Associates, Boston, Mass. Jute webbing. No. 162,182; July 4.
- Magee, Allan A., Montreal, Quebec, Canada. Horses on wheels for children. No. 146,321; July 4.
- Manhattan Briar Pipe Company, New York and Brooklyn, N. Y. Pipes for smoking. No. 153,733; July 4.
- Manhattan Briar Pipe Company, New York and Brooklyn, N. Y. Pipes for smoking. No. 153,743; July 4.
- Markman, Simon, New York, N. Y. Shampoo and hair wash. No. 160,292; July 4.
- Marshall Field & Company, Chicago, Ill. Muslin, cambric, nainsook, and long cloth all in the piece. No. 140,311; July 4.
- Maryland Shoe Corporation, Baltimore, Md. Leather and canvas shoes. Nos. 152,897-8; July 4.
- McClave-Brooks Co., Scranton, Pa. Steam blowers. No. 157,720; July 4.
- McCreery, James, & Company, New York, N. Y. Combs, pincushions, glove stretchers, shoe horns, etc. No. 158,245; July 4.
- Mid West Glass Company, The, Cincinnati, Ohio. Fluid gauges. No. 161,734; July 4.
- Miller, Joseph B., Indianapolis, Ind. Fire-extinguishing composition. No. 158,884; July 4.
- Miller Lock Company, Philadelphia, Pa. Frying pans and broom holders. No. 156,500; July 4.
- Miller Tool & Mfg. Co., Detroit, Mich. Service tools used in repairing automobiles. No. 156,231; July 4.
- Minnesota Stove Company, The, Minneapolis, Minn. Wood, coal, gas, oil, and vapor stoves, ranges, and furnaces. No. 166,453; July 4.
- Morris & Company, Chicago, Ill. Meats, meat products, and other foods. Nos. 154,036-7; July 4.
- National Home Appliance Corporation, Detroit, Mich. Household appliances. No. 149,093; July 4.
- Natural Life Face Beautifier Company, St. Louis, Mo. Skin lotion. No. 160,624; July 4.
- Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. No. 157,943; July 4.
- Neuhoff, Fred B., trading as Fred B. Neuhoff Company, Los Angeles, Calif. Canned fruits and vegetables. Nos. 157,945-6; July 4.
- New York Merchandise Company, New York, N. Y. Safety pins. Nos. 160,558-9; July 4.
- Noonan, T., & Sons Company, Boston, Mass. Toilet preparations. No. 145,119; July 4.
- Oilrol Piston Ring Co. (See Fulton, Frederick F.)
- 1 in 5 Manufacturing Co., Detroit, Mich. Liquid preparation for energizing gasoline. No. 157,169; July 4.
- Osborn Mills, Fall River, Mass. Cotton pillow tubing. No. 163,105; July 4.
- Osborn Paper Company, Marion, Ind. Writing tablets, composition books, student notebooks, etc. No. 162,947; July 4.
- Package Confectionery, Boston, Mass. Candy. No. 149,598; July 4.
- Palmer, Limited, doing business as Minty, Montreal, Quebec, Canada. Creams, face powders, rouges, etc. No. 158,640; July 4.
- Panarello, James A., doing business as J. A. Panarello Co., New York, N. Y. Golf hose. No. 155,572; July 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Parts Service Company, The, Cleveland, Ohio. Automobile parts. No. 160,972; July 4.
 Passaic Print Works, Passaic, N. J. Cotton piece goods. No. 156,410; July 4.
 Pierson, Irving R., New York, N. Y. Metallic straps for use in strapping and sealing boxes, etc. No. 155,631; July 4.
 Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 145,708; July 4.
 Plant-Butler Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. No. 156,800; July 4.
 Porter Chemical Company, The, Hagerstown, Md. Chemicals. No. 143,103; July 4.
 Poster Advertising Association, Chicago, Ill. Monthly publication. No. 163,352; July 4.
 Premier Malt Products Co. of Ohio, Inc., Chicago, Ill. Malt sirup for food purposes. Nos. 158,629-31; July 4.
 Purchasing Agents Association of Western Massachusetts, Springfield, Mass. Periodical published monthly. No. 163,536; July 4.
 Puritan Drug Mfg. Company, The, Columbus, Ohio. Ammonia, castor oil, cough balsam, salts, etc. No. 146,655; July 4.
 Rainbow Import & Export Corporation, New York, N. Y. Aluminum kitchen utensils and flatware. No. 157,043; July 4.
 Reed Roller Bit Co., Houston, Tex. Rotary drill bits, reamers, oil-well fishing tools, etc. No. 153,950; July 4.
 Rees, Fred, doing business as The Remo Mfg. Co., Meriden, Conn. Safety pins. Nos. 161,147-8; July 4.
 Remind-O-Meter Company, The. (See Goodspeed, Charles A.)
 Remo Manufacturing Co., The. (See Rees, Fred.)
 Reynolds, Reginald, Riverside, Conn. Embroidery yarns and sewing threads. No. 159,886; July 4.
 Rhymen, Hiram B., Elmira, N. Y. Washing powder. No. 149,102; July 4.
 "Robert." (See Dewels, Robert.)
 Roddenberry Bros., Cairo, Ga. Pure Georgia cane sirup. No. 158,334; July 4.
 Rogers, Enoch S., trading as E. S. Rogers Mfg. Co., Philadelphia, Pa. Children's three-wheel propelling cars. No. 159,769; July 4.
 Rose & Frank Co., New York, N. Y. Tissue paper mainly used for carbonizing purposes. Nos. 162,576-8; July 4.
 Royal Electrotape Company, Philadelphia, Pa. Electrotapes. No. 161,164; July 4.
 Rutland Fire Clay Co., Rutland, Vt. Boiler covering. No. 154,996; July 4.
 Sander, Wieler & Co., Hamburg, Germany. Carbon blocks and paint pigments. No. 144,884; July 4.
 Sanford Mills, Sanford, Me., and Boston, Mass. Pile fabrics made wholly or in part of hair or wool. No. 162,138; July 4.
 Schieren, Chas. A., Company, New York, N. Y. Leather belting. No. 161,276; July 4.
 Schlangen Bros. Co., Chicago, Ill. Hose nozzles. No. 157,636; July 4.
 Sept Cinema Camera Distributors, Inc., New York, N. Y. Cinema cameras. No. 161,901; July 4.
 Shackman, B. & Co., New York, N. Y. Snapping mottoes. Nos. 164,125-6; July 4.
 Shapiro, Charles H., doing business as A-B-C Auto Radiator Works, Chicago, Ill. Radiators for motor vehicles. No. 162,463; July 4.
 Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. Nos. 164,611-13; July 4.
 Sheffield Mfg. Co., Burr Oak, Mich. Hand sleds. No. 164,614; July 4.
 Sheffield Mfg. Co., Burr Oak, Mich. Coaster wagons. No. 164,615; July 4.
 Shipley-Allen, Inc., Dover, Del., and Pittsburgh, Pa. Piston rings. No. 162,855; July 4.
 Silbert, Harry, doing business as Hudson Bay Fur Company, New York, N. Y. Prepared furs. No. 152,727; July 4.
 Skelton Tool Co., Syracuse, N. Y. Reamers, boring bars, special metal-working tools, machine guards. No. 144,546; July 4.
 Smith, Carolyn S., doing business as Vitalized Water Process Co., New York, N. Y. Filters. No. 162,583; July 4.
 Smith, Margaret J., trading as U. Z. A. Manufacturing Co. (not Inc.), Chicago, Ill. Curtain holders. No. 161,204; July 4.
 Societe Rodier, Paris, France. Woolen, merino, and cashmere piece goods. No. 157,333; July 4.
 Societe Rodier, Paris, France. Piece goods of wool and of silk and of combinations of silk and wool. No. 157,334; July 4.
 Societe Rodier, Paris, France. Piece goods of cotton and wool and combinations of same. No. 157,335; July 4.
 Societe Rodier, Paris, France. Woolen piece goods. No. 157,587; July 4.
 Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Wheat flour. No. 155,326; July 4.
 Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 161,798; July 4.
 Standard Neckwear Company. (See Greeney, Thomas E.)
 Star Oil Company, Chicago, Ill. Lubricating oils. No. 152,217; July 4.
 Sta-Rite Hair Pin Co., Shelbyville, Ill. Hair pins. No. 160,303; July 4.
 Stein, A., & Company, Chicago, Ill. Elastic webbing and shirred elastic ribbon. No. 148,623; July 4.
 Stevens, J. P. & Co., New York, N. Y. Woolen piece goods. Nos. 163,119-20; July 4.
 Stevenson, Robert T., doing business as The Stevenson Sales Company, Chicago, Ill. Can opener. No. 158,543; July 4.
 Stevenson Sales Company, The. (See Stevenson, Robert T.)
 Stimule Company Inc., The, New York, N. Y. Toilet powder. No. 160,509; July 4.
 Stimule Company Inc., The, New York, N. Y. General tonic in tablet form. No. 160,510; July 4.
 Stimule Company Inc., The, New York, N. Y. Toilet cream. No. 160,511; July 4.
 Stimule Company Inc., The, New York, N. Y. Headache medicine. No. 160,512; July 4.
 Stimule Company Inc., The, New York, N. Y. Laxative medicine. No. 160,513; July 4.
 St. John Brothers Co. Inc., New York, N. Y. Fabrics identified as follows: piece-dyed chambray, piece-dyed chambray shorts, tickings, etc. No. 162,697; July 4.
 Stuart & Holmes Drug Co., Seattle, Wash. Combs. No. 162,906; July 4.
 Sullivan Machinery Company, Boston, Mass., and Chicago, Ill. Air lifts and liquid separators. No. 145,861; July 4.
 Superior Manufacturing Co., Massillon, Ohio. Aluminum tipped saucepans, pots, kettles, pitchers, coffee pots, teapots, etc. No. 161,205; July 4.
 Sussfeld, Lorsch & Schimweil, New York, N. Y. Watch parts. No. 154,100; July 4.
 Sykes & Thompson Co., The, Cleveland, Ohio. Confections—namely, candy. No. 156,866; July 4.
 Taylor, Charles G., doing business as The Bok-A-Bel Medicine Co., Peoria, Ill. Compound for treating catarrh, asthma, and colds. No. 159,389; July 4.
 Ternstedt Manufacturing Co., Detroit, Mich. Automobile body hardware. No. 156,471; July 4.
 Tuckett Tobacco Company, Limited, The, Hamilton and London, Ontario, and Montreal, Quebec, Canada. Cut and plug tobacco. No. 144,358; July 4.
 United Manufacturing Trimming Co. Inc., New York, N. Y. Buttons, buckles, girdles, beads, spangles, etc. No. 161,158; July 4.
 United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Cement such as is used in the manufacture and repairing of boots and shoes. No. 148,041; July 4.
 United States Brewing Company, Newark, N. J. Beer and near beer. No. 147,380; July 4.
 United States Gypsum Company, Chicago, Ill. Calcined gypsum wall plaster. No. 163,204; July 4.
 United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. No. 164,526; July 4.
 United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Hose made of cotton and rubber and hose made of linen. No. 161,287; July 4.
 U. Z. A. Manufacturing Co. (not Inc.). (See Smith, Margaret J.)
 Valcour, Frank, Cutbank and Forsyth, Mont. Liquid cleaning compound. No. 153,420; July 4.
 Van Raalte Company, New York, N. Y. Stockings. No. 147,266; July 4.
 Velvotone Chemical Co., The, Jacksonville, Fla. Preparation to promote the growth of the hair and for the treatment of dandruff, etc. No. 154,942; July 4.
 Vitalized Water Process Co. (See Smith Carolyn S.)
 Waltes & Co., Inc., Long Island City, N. Y. Snap fasteners. No. 159,394; July 4.
 Wallace & Co., Brooklyn, N. Y. Candies. No. 158,407; July 4.
 Warren Brothers Company, Boston, Mass. Pavements and paving material containing bituminous matter. No. 158,498; July 4.
 Wertheimer, Sydney B., New York, N. Y. Combined vanity case and corsage shield. No. 161,289; July 4.
 West Disinfecting Company, New York, N. Y. Paper towels. No. 162,705; July 4.
 Western Electric Company, Incorporated, New York, N. Y. Electric signal or alarm boxes, door openers, sewing machines, etc. No. 111,634; July 4.
 Western Electric Company, Incorporated, New York, N. Y. Cord fasteners, hooks, and pulleys, window springs, etc. No. 111,635; July 4.
 Westgate Sea Products Co., San Diego, Calif. Canned white tuna fish. No. 157,973; July 4.
 West Point Manufacturing Company, Langdale, Ala. Crash, towels, and toweling. No. 163,061; July 4.
 White Bros. & Crum Co., Lewiston, Idaho. Fresh deciduous fruits. No. 158,349; July 4.
 Wildes, Alice S., doing business as Alys, New York, N. Y. Perfumes. No. 160,523; July 4.
 Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers and like machines. No. 158,279; July 4.
 Williams Patent Crusher & Pulverizer Co., St. Louis, Mo. Crushers and like machines. No. 158,462; July 4.
 Willson Goggles, Inc., Reading, Pa. Goggles and protection glasses. No. 160,734; July 4.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Wilson & Co. Inc., New York, N. Y. Tomato catchup, fruit in sugar, cherries, oysters, etc. No. 129,819; July 4.	Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's rockers. No. 161,469; July 4.
Wolf Doll Co. Inc., New York, N. Y. Dolls. No. 162,864; July 4.	Wooster Brush Company, The, Wooster, Ohio. Brushes. Nos. 160,448-9; July 4.
Wontshed Brush Co., Troy, N. Y. Shaving brushes. No. 161,218; July 4.	Worumbo Manufacturing Company, Bath, Me. Woolen goods in the piece. No. 159,192; July 4.
Woodstock Manufacturing Co. Inc., Rochester, N. Y. Children's coaster cars. No. 161,458; July 4.	Yeast Tablet Co., The, South Bend, Ind. Food tonic containing vitamins of yeast. No. 158,511; July 4.
	Zinsser, William, & Company, Incorporated, New York, N. Y. Oil paint. No. 158,166; July 4.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Acetylene-gas-lighting plant. D. Carmichael. No. 1,422,030; July 4.
- Acetylene, Manufacture of products from. B. C. Stuer. and W. Grob. No. 1,421,743; July 4.
- Acids, Treating. I. Hechenbleikner and T. C. Oliver. No. 1,421,688; July 4.
- Advertising device, Automatic. W. H. Kuhne. No. 1,421,961; July 4.
- Aeroplane. C. Peters. No. 1,421,550; July 4.
- Aeroplane, Captive. R. Garvey and T. J. Miner. No. 1,421,683; July 4.
- Aeroplane construction. W. P. Gary. No. 1,421,934; July 4.
- Aeroplane propeller. W. Lindsay. No. 1,421,699; July 4.
- Air-brake-pressure retainer. A. Young. No. 1,421,651; July 4.
- Air compressor. A. B. Jennings. No. 1,421,484; July 4.
- Air heater. M. Hachalacht. No. 1,421,939; July 4.
- Aircraft, Apparatus for. F. E. Scholfield. No. 1,421,846; July 4.
- Alarm: See—
Burglar alarm.
- Alloy of refractory metals and forming same. J. A. Yunk. No. 1,422,019; July 4.
- Alloy, Zinc. H. Goldschmidt and K. Müller. No. 1,421,686; July 4.
- Alumina, Obtaining. R. S. Sherwin. No. 1,422,004; July 4.
- Ammonia process, Preparing a permanent and spinnable solution in the cupric. P. H. Minck. No. 1,421,707; July 4.
- Amusement apparatus. W. F. Krahe. No. 1,421,960; July 4.
- Amusement device. J. C. Callais. No. 1,421,907; July 4.
- Amusement device. F. Chapman. No. 1,422,032; July 4.
- Antifouling composition. G. D. Coleman. No. 1,421,914; July 4.
- Antiskid device. J. L. Donat. No. 1,421,922; July 4.
- Arbor press. J. H. Staley. No. 1,421,738; July 4.
- Arms, Adjustable connection for actuating. L. G. Collyer. No. 1,421,408; July 4.
- Arsenic trichloride, Making. L. H. Milligan. No. 1,421,978; July 4.
- Artificial internal members of the human body, Material for. F. Hauptmeyer. No. 1,421,776; July 4.
- Auto lock. B. Byers. No. 1,421,401; July 4.
- Automobile body. W. F. Kincaid. No. 1,421,788; July 4.
- Automobile decking. F. H. Thompson and E. Holmes. No. 1,421,747; July 4.
- Automobile guard. V. Fernández. No. 1,421,437; July 4.
- Automobile locking device. J. P. Geraghty. No. 1,421,684; July 4.
- Automobile radiators, Apparatus for indicating the amount of water in. C. Ford. No. 1,421,930; July 4.
- Automobile radiators, Water gauge for. T. I. Taylor. No. 1,421,615; July 4.
- Automobile seat. J. H. McCollough, Jr. (Reissue.) No. 1,539,6; July 4.
- Automobile spark indicator. J. L. Klavon. No. 1,421,495; July 4.
- Automobile steering mechanism, Locking device for. E. L. B. Von Diezelski. No. 1,421,870; July 4.
- Automobile storm curtain. A. F. Randall. No. 1,421,716; July 4.
- Automobile wheel. D. S. Greenberg. No. 1,422,050; July 4.
- Automobiles, and other motor vehicles, Lubricant-controlling device for automatically controlling the lubricating system of gas engines of. A. J. Rowan. No. 1,421,995; July 4.
- Automobiles, Cast wheel for. W. E. Williams. No. 1,421,643; July 4.
- Automobiles, Lighting system for. W. F. Penrod. No. 1,421,549; July 4.
- Back gauge. G. W. Jacques. No. 1,421,483; July 4.
- Bailer structure. F. B. Alldredge. No. 1,421,363; July 4.
- Ball. W. H. Clark. No. 1,421,407; July 4.
- Band cutter. S. V. Cochrane. No. 1,421,764; July 4.
- Bar: See—
Spacing bar.
- Basket, Sanitary waste. D. E. Watkins. No. 1,421,628; July 4.
- Bath-cabinet vaporizer. J. F. Kruse. No. 1,421,502; July 4.
- Bathing suits. G. A. Mattern. No. 1,421,704; July 4.
- Bearing. A. Kingsbury. No. 1,421,695; July 4.
- Bearing. H. C. Knowles. No. 1,421,789; July 4.
- Bearing assembly. C. H. Wills. No. 1,421,644; July 4.
- Bearing for shafts, etc., Split lubricating. P. G. Bogdanoff. No. 1,421,661; July 4.
- Bearing for steam turbines. C. W. Dake. No. 1,421,918; July 4.
- Belt. A. F. Garberding. No. 1,421,451; July 4.
- Belt shifters, Cone. E. E. Jones. No. 1,421,485; July 4.
- Bench and floor clamp. T. Ashworth. No. 1,421,370; July 4.
- Beverages, Producing cereal. M. Stahl. No. 1,421,737; July 4.
- Billiard-table pockets, Guard for. E. H. Acland. No. 1,421,361; July 4.
- Binder or file, Loose-leaf. W. F. Dunning. No. 1,421,677; July 4.
- Biplane, Tractor. J. V. Martin. No. 1,421,803; July 4.
- Bit: See—
Oil-well drill bit.
- Blast-roasting apparatus and the like. G. Rigg. No. 1,421,989; July 4.
- Board: See—
Game board.
- Boat, Submersible flying. J. Ardo. No. 1,421,369; July 4.
- Bobbin-making machine. O. Seeberger. No. 1,421,579; July 4.
- Boiler. M. J. Healy. No. 1,421,778; July 4.
- Bolt: See—
King bolt.
- Book and cover therefor, Manifold sales. F. Hachmann. No. 1,421,461; July 4.
- Bottle and nipple protector, Nursing. W. Weissbeier. No. 1,421,877; July 4.
- Bottles, Hand crowner for applying crown caps to. H. J. Leberher. No. 1,421,698; July 4.
- Box: See—
Burial box. Paper box.
Folding box. Tool box.
Hat box.
- Box-tray support. W. L. Buedingen. No. 1,422,028; July 4.
- Brake: See—
Friction brake. Hand brake.
- Brake beam. C. H. Williams and E. G. Busse. No. 1,421,881; July 4.
- Broom-bundle-making machine. H. D. Neff. No. 1,421,812; July 4.
- Brushes, Scraper attachment for paint. O. J. Hope. No. 1,421,478; July 4.
- Building construction, Metal. T. H. Kane. No. 1,421,950; July 4.
- Burglar alarm. J. F. Mackovitch. No. 1,421,972; July 4.
- Burial box. F. Lees. No. 1,421,967; July 4.
- Burner: See—
Gas burner. Refuse burner.
- Butter-fat gauge. J. A. Meeker. No. 1,421,524; July 4.
- Cabinet, Kitchenette. D. O. Green. No. 1,421,456; July 4.
- Cake or biscuit cutter. B. S. Williams. No. 1,421,749; July 4.
- Calculating machines, Control mechanism for. J. F. Robb. No. 1,421,719; July 4.
- Calendar. S. O. Bartlett. No. 1,421,379; July 4.
- Camera, Reflex. C. Spiro. No. 1,421,735; July 4.
- Camera shutter, Curtain. C. Spiro. No. 1,421,736; July 4.
- Can: See—
Garbage can.
- Can-capping tool. F. Coates. No. 1,421,673; July 4.
- Cans, Apparatus for casing. C. L. Hooper. No. 1,422,057; July 4.
- Candle, Battery. E. Pugsley. No. 1,421,561; July 4.
- Cane mills, Indicator and caliper gauge for. W. Langmeier. No. 1,421,504; July 4.
- Canning, Treating vegetables in preparation for. W. W. Willison. No. 1,421,750; July 4.
- Captive-ball practice device. C. F. Craig. No. 1,421,414; July 4.
- Car-control equipment, Safety. G. Macloskie. No. 1,421,796; July 4.
- Car-coupling knuckle. O. H. di Le Compte. No. 1,421,421; July 4.
- Car door, Grain. J. Siemen. No. 1,421,592; July 4.
- Car-door top guide. P. M. Elliott. No. 1,421,431; July 4.
- Car, Freight. M. J. Whelan. No. 1,421,637; July 4.
- Car, Refrigerator. L. W. Collins. No. 1,421,913; July 4.
- Car, Self-discharging. K. Barth. No. 1,421,378; July 4.

- Car, Self-discharging. G. Immand. No. 1,421,482; July 4.
 Car wheel. C. S. Zabriskie. No. 1,421,653; July 4.
 Cars, Brake release spring mechanism for tram and the like. H. Leah. No. 1,421,697; July 4.
 Cars, especially mine locomotives. Worm drive for electric. G. Müller. No. 1,421,534; July 4.
 Cars, Lifting iron for motor. C. A. Rofo. No. 1,421,993; July 4.
 Carburetor. W. A. Heide. No. 1,422,054; July 4.
 Carburetor. H. V. Leahy. No. 1,421,790; July 4.
 Carburetor attachment. F. Moore and A. Gray. No. 1,421,580; July 4.
 Case: *See*—
 Combination comb case. Toilet case.
 Castor. A. W. Warnock. No. 1,421,626; July 4.
 Castor. J. F. Wolfs. No. 1,421,647; July 4.
 Centering device, Coupling. R. E. Powers. No. 1,421,556; July 4.
 Chain. J. H. Cooke. No. 1,421,915; July 4.
 Chains and the like, Producing hollow wire for manufacturing of. F. Kammerer. No. 1,421,491; July 4.
 Chair or the like, Foldable. W. Heerling. No. 1,421,779; July 4.
 Chill. W. I. Smith. No. 1,421,596; July 4.
 Chimney cleaner. A. H. Sharp and W. D. Cockrell. No. 1,422,001; July 4.
 Chopper: *See*—
 Cotton chopper.
 Christmas-tree support. C. L. Burchess. No. 1,421,398; July 4.
 Churn, Power-operated. J. M. Rodger. No. 1,421,571; July 4.
 Cinematographic apparatus. E. Mechau. No. 1,421,523; July 4.
 Clamp: *See*—
 Bench and floor clamp. Rope clamp.
 Clasp. W. G. Weber. No. 1,421,874; July 4.
 Cleaner: *See*—
 Chimney cleaner. Hydrochemical cleaner.
 Fowl cleaner.
 Cleaning device. R. Millhouse. No. 1,421,529; July 4.
 Clip: *See*—
 Pen and pencil clip.
 Clip device for reels. E. Fulda. No. 1,421,933; July 4.
 Clock. W. O'Leary. (Reissue). No. 15,398; July 4.
 Closet, Marine. P. Allan. No. 1,421,362; July 4.
 Clothes drier. W. C. Hughes. No. 1,422,061; July 4.
 Clothes drier. S. Skelly. No. 1,421,851; July 4.
 Clothes hanger. F. C. Nelson. No. 1,421,709; July 4.
 Clutch pulley, Friction. A. L. Preimesberger. No. 1,421,558; July 4.
 Clutch release, Automatic. G. E. Maxwell. No. 1,421,521; July 4.
 Clutch, Self-adjusting. A. H. Hunt. No. 1,422,062; July 4.
 Coating machine, Liquid. E. F. Müller. No. 1,421,811; July 4.
 Cocoa cake or the like, Machine for breaking. W. E. Prescott. No. 1,421,560; July 4.
 Coin separating and counting device. H. W. Roeding. E. H. Williams, and J. G. Bauer. No. 1,421,992; July 4.
 Coke-quenching receptacle. A. Frankel. No. 1,421,445; July 4.
 Comb case, Combination. F. W. Bowler. No. 1,421,392; July 4.
 Combination table. G. Floreskul. No. 1,421,929; July 4.
 Comforter or wadded quilt. H. A. Calef. No. 1,421,906; July 4.
 Commutator. W. Sparks. No. 1,421,734; July 4.
 Commutator and battery-charging outfit including the same. D. S. Scarborough. No. 1,421,998; July 4.
 Compensator, Starting. P. Dunning. No. 1,421,923; July 4.
 Concrete structures, Collapsible mold for. H. J. Kestler. No. 1,421,956; July 4.
 Concrete structures, Constructing subaqueous. J. Störe. No. 1,421,857; July 4.
 Confection mold. C. P. Speck. No. 1,421,601; July 4.
 Confections, Making. C. P. Speck. No. 1,421,600; July 4.
 Connecting ring. E. L. Weed. No. 1,421,876; July 4.
 Conveyor. A. L. Shaw. No. 1,422,002; July 4.
 Cooker. H. Hull. No. 1,421,480; July 4.
 Cooler: *See*—
 Journal-box cooler.
 Correction device. F. C. Hinckley. No. 1,421,472; July 4.
 Cotton chopper. F. C. Hall. No. 1,422,051; July 4.
 Cotton compress. F. L. White. No. 1,422,014; July 4.
 Counter-forming machine, Automatic. A. F. Jones. No. 1,421,947; July 4.
 Counter, Order-filling. F. A. Ferris. No. 1,421,679; July 4.
 Counters, Display attachment for. W. O. Melvin. No. 1,421,806; July 4.
 Coupling: *See*—
 Jewelry coupling.
 Creasing mechanism. A. Novick. No. 1,421,817; July 4.
 Cremation furnace. A. H. Davidson and S. Sundelius. No. 1,421,919; July 4.
 Crank holder. M. Thu. No. 1,421,860; July 4.
 Cultivator. M. F. Watkins. No. 1,421,872; July 4.
 Cultivator attachment. M. R. Sims. No. 1,421,593; July 4.
 Current transformer, Direct. A. F. Nesbit. No. 1,421,538; July 4.
 Cushion lock, Safety steel strap. R. W. Saunders. No. 1,421,726; July 4.
 Cutter: *See*—
 Band cutter. Loom-temple thread cutter.
 Glass cutter. Self-oiling rotary cutter.
 Damper, Vibration. O. Junggren. No. 1,421,785; July 4.
 Depitting machine, Date. C. S. Leonard. No. 1,421,505; July 4.
 Derailing guard. F. Zeis. No. 1,422,021; July 4.
 Desk, Flat-top roll-cover. R. H. Allwork. No. 1,421,357; July 4.
 Desk, Office. F. Bianchi y Reche. No. 1,421,564; July 4.
 Differential. J. Ross. No. 1,421,834; July 4.
 Direction indicator. W. J. Schafer. No. 1,421,727; July 4.
 Dishwashing machine. C. Olson. No. 1,421,543; July 4.
 Dispensing device. J. E. Hawley and A. W. Capps. No. 1,421,777; July 4.
 Display book. M. Schlosser. No. 1,421,574; July 4.
 Display container. H. B. Beatty and C. L. Johnson. No. 1,421,384; July 4.
 Door closer and check. W. J. Bryon. No. 1,421,666; July 4.
 Door hanger. A. J. Hayes. No. 1,421,941; July 4.
 Door-holding device. N. B. Hurd. No. 1,421,691; July 4.
 Door-operating appliances. J. G. Robinson. No. 1,421,721; July 4.
 Door-securing device. H. Thorne. No. 1,421,746; July 4.
 Doors of self-discharging receptacles, Operating mechanism for the. F. Finckh. No. 1,421,439; July 4.
 Drier: *See*—
 Clothes drier.
 Drill. J. C. Fitzgerald. No. 1,421,928; July 4.
 Drilling machine. T. P. Caulkins. No. 1,422,031; July 4.
 Drying machine. G. Stone. No. 1,421,856; July 4.
 Drying molds. L. R. Lemoine. No. 1,421,791; July 4.
 Dust guard. H. C. Gamage. No. 1,421,449; July 4.
 Lye for documents, Making an indestructible black stamp. J. Schiffmann. No. 1,421,728; July 4.
 Easel for florists' use. C. Smith. No. 1,421,595; July 4.
 Electric apparatus for propelling projectiles. A. L. O. Fauchon-Villeplee. No. 1,421,435; July 4.
 Electric braking. P. W. Forsberg. No. 1,421,931; July 4.
 Electric generating unit, Automatic. W. W. Bucher. No. 1,422,027; July 4.
 Electric-light fixture. R. M. Beard. No. 1,421,382; July 4.
 Electric motor. C. L. Weltner. No. 1,421,634; July 4.
 Electric switch. C. C. Stirling. No. 1,421,853; July 4.
 Electric time-switch mechanism. A. R. Rosamond. No. 1,421,833; July 4.
 Electric water heater. A. M. Goldberg. No. 1,421,937; July 4.
 Electrical heating unit. R. G. Kloeffer. No. 1,421,959; July 4.
 Electrostatic separation of finely-divided discrete material, Process and apparatus for. G. R. Brown. No. 1,422,026; July 4.
 Elevator. C. P. Kininmonth. No. 1,421,787; July 4.
 Elevator controller. R. A. Isenberg. No. 1,421,945; July 4.
 Emergency brake, antikidding, and antitheft device. M. Michon. No. 1,421,910; July 4.
 Engine: *See*—
 Internal-combustion engine. Rotary steam engine.
 Engines, Attachment plug for oiling systems for internal-combustion. R. W. Saunders. No. 1,421,725; July 4.
 Engines, Auxiliary inlet device for internal-combustion. C. Pohl. No. 1,421,554; July 4.
 Engines, Primer for internal-combustion. H. D. Waterhouse. No. 1,421,627; July 4.
 Engines, Thermostatic device for cooling systems of internal-combustion. C. L. Rayfield. No. 1,421,830; July 4.
 Envelope filling and closing machine. G. F. Russ. No. 1,421,835; July 4.
 Envelope, Lock sealed. M. H. Flaherty. No. 1,422,045; July 4.
 Envelope-making machines, Gripper mechanism for. A. E. Augustine. No. 1,421,889; July 4.
 Envelopes, Machine for making lined. A. Novick. No. 1,421,816; July 4.
 Envelopes, Machine for sealing and stamping. M. Vidaver. No. 1,421,867; July 4.
 Esters, Manufacture of. J. A. Steffens. No. 1,421,604; July 4.
 Esters, Manufacturing. J. A. Steffens. No. 1,421,605; July 4.
 Etching or like machines. W. S. Eaton. Nos. 1,421,426-7; July 4.
 Ethylene, Producing. M. C. Whitaker and A. A. Backhaus. No. 1,421,640; July 4.
 Explosive engines, Combined muffler and deodorizer for. F. Embanks. No. 1,421,432; July 4.
 Eye protector. H. H. Styl. No. 1,421,744; July 4.
 Eyeglass mountings, Gauge for. M. Hansen. No. 1,421,465; July 4.
 Fabrics, Means for cutting. R. Loeb. No. 1,421,969; July 4.
 Fan. J. T. Hope. No. 1,421,477; July 4.
 Farming machine. J. H. Lewis. No. 1,421,968; July 4.
 Feeding machine, Article. O. N. Ritchie and H. C. Boykin. No. 1,421,569; July 4.
 Fender: *See*—
 Life saving fender. Vehicle fender.

- Fibrous materials, Treatment of. D. McGill. No. 1,421,703; July 4.
- Filing device. R. McKnight. No. 1,421,515; July 4.
- Film holder. W. S. Brackney. No. 1,422,029; July 4.
- Filter. D. A. Jones and C. R. Martin. No. 1,421,948; July 4.
- Fire extinguisher. H. S. Mitchell. No. 1,421,979; July 4.
- Fire-extinguishing agent. G. E. Ferguson and L. E. Eckelmann. No. 1,421,436; July 4.
- Fire-extinguishing composition and preparing same. J. B. Miller. No. 1,421,527; July 4.
- Fire-extinguishing solution. L. E. Eckelmann. No. 1,421,428; July 4.
- Fire-extinguishing system. F. A. Epps. No. 1,421,433; July 4.
- Fish lure. C. M. Rodgers and A. W. Wenger. No. 1,421,991; July 4.
- Fishline reel. W. Schmid. No. 1,421,839; July 4.
- Flashlight. L. A. Miller. No. 1,421,528; July 4.
- Flexible articles, Method and apparatus for manipulating. J. R. Gammeter. No. 1,421,450; July 4.
- Floor grating. W. L. Pattison. No. 1,421,827; July 4.
- Flour feeder. J. W. Benedict. No. 1,421,896; July 4.
- Fluid-transfating device. H. F. Schmidt. Nos. 1,421,840-5; July 4.
- Fluids, Method and apparatus for pumping. A. G. M. Michell. No. 1,421,976; July 4.
- Folding box. C. C. Miller. No. 1,421,526; July 4.
- Folding table. L. Noltz. No. 1,421,541; July 4.
- Foodstuffs, Apparatus for chopping. G. W. Gregory. No. 1,421,458; July 4.
- Fowl cleaner. W. A. Bruck. No. 1,421,397; July 4.
- Fractionating apparatus. H. L. Allan. No. 1,421,886; July 4.
- Frame: *See*—
Picture frame. Reel frame.
Printing frame.
- Friction brake. G. L. Smith. No. 1,422,006; July 4.
- Friction lining. H. Cory and O. D. Gray. No. 1,421,412; July 4.
- Fruit cutting and coring device. G. Vafiades, and J. Koukos. No. 1,422,066; July 4.
- Fuel, Engine. M. C. Whitaker. No. 1,421,879; July 4.
- Fuel vaporizing and economizing apparatus. C. V. Stevenson. No. 1,421,606; July 4.
- Furnace: *See*—
Cremation furnace. Pulverized-fuel furnace.
- Furnace. T. A. Peebles. (Reissue). No. 15,399; July 4.
- Furnace. A. Smallwood. No. 1,421,852; July 4.
- Fuse. H. H. Baker. No. 1,421,376; July 4.
- Game. J. B. Abele. No. 1,421,656; July 4.
- Game. A. E. D. B. Rod. No. 1,421,570; July 4.
- Game. E. F. Schmidt. No. 1,421,575; July 4.
- Game board. J. R. Donnelly. No. 1,422,042; July 4.
- Game board and game. R. G. Elbert. No. 1,421,678; July 4.
- Game trap. M. J. Svehla. Nos. 1,421,610-11; July 4.
- Garbage can, Sanitary. P. Kane. No. 1,422,064; July 4.
- Garment. D. Freeman. No. 1,421,446; July 4.
- Garment construction. J. Seewald. No. 1,421,849; July 4.
- Garment hanger. H. Taubman. No. 1,421,614; July 4.
- Gas, Apparatus for purifying coal. F. Soddy. No. 1,422,008; July 4.
- Gas burner. E. H. and M. C. Shuler. No. 1,421,591; July 4.
- Gas by means of charcoal, Method of stripping the illuminants from and of purifying coal. F. Soddy. No. 1,422,007; July 4.
- Gas cock and jet plug therefor. E. L. Claus. No. 1,422,033; July 4.
- Gas in another, Method of and apparatus for detecting the presence of one. C. H. M. Roberts. No. 1,421,720; July 4.
- Gases of cement kilns, Utilizing waste heat. J. E. Bell. No. 1,421,886; July 4.
- Gases, Means for regulating the flow of compressed. A. E. Bawtree. No. 1,421,381; July 4.
- Gasoline and oil saver. W. A. Richey and C. H. Rowles. No. 1,421,567; July 4.
- Gate: *See*—
Train-operated gate.
- Gate. T. J. Drake. No. 1,421,422; July 4.
- Gate fastener. H. H. Schaefer. No. 1,421,573; July 4.
- Gauge: *See*—
Back gauge. Liquid-level gauge.
Butter-fat gauge. Pressure gauge.
- Gauge. H. P. Kraft and M. C. Schweinert. No. 1,421,501; July 4.
- Gear mechanism, Change-speed-. H. J. Mansell and C. D. Fry. No. 1,421,799; July 4.
- Gearing. T. H. Mars. No. 1,421,800; July 4.
- Gearing, Cam. H. J. Schmick. No. 1,422,000; July 4.
- Glass cutter, Rotary. C. F. Doerr. No. 1,421,921; July 4.
- Glass, Method and apparatus for producing sheet. J. P. Crowley and C. A. Rowley. No. 1,422,036; July 4.
- Glass outlets, Closure for molten-. V. Mulholland. No. 1,421,810; July 4.
- Glass, Producing nonshatterable. O. S. Marckworth. No. 1,421,974; July 4.
- Glasses, Machine for grinding beveled rim surfaces on spectacle. O. Henker. No. 1,422,055; July 4.
- Glue, gelatine, and the like, Apparatus for the extraction of. F. H. Tunnell. No. 1,421,620; July 4.
- Glue roll. P. Zalkind. No. 1,421,654; July 4.
- Golf-bag ball receptacle. C. B. Kemp. No. 1,421,955; July 4.
- Governor. E. J. Blake. No. 1,421,660; July 4.
- Grab-bucket construction, Single-line. A. M. Shearer. No. 1,422,003; July 4.
- Grading machine. E. Prendergast. No. 1,421,559; July 4.
- Grain crib. W. A. Caldwell. No. 1,421,763; July 4.
- Grain-door forcing device. W. A. McGann. (Reissue). No. 15,397; July 4.
- Grate, Shaker. S. H. Sorrell. No. 1,421,598; July 4.
- Grinder. C. L. Cook. No. 1,422,035; July 4.
- Grinder and shredder. H. J. Shelton. No. 1,421,731; July 4.
- Guide bars, Aligning instrument for crosshead. A. R. Bateman. No. 1,421,895; July 4.
- Gun sight. C. Pohl. No. 1,421,553; July 4.
- Guns, Compressed air recuperator for. E. Schneider. No. 1,421,576; July 4.
- Halogen compounds, Preparation of. W. O. Snellings. No. 1,421,733; July 4.
- Hand brake. J. F. O'Connor. No. 1,421,823; July 4.
- Hand lamp, Battery. C. F. Burgess. No. 1,421,399; July 4.
- Handle: *See*—
Saw handle.
- Handle joint. W. E. Seastrom. No. 1,421,848; July 4.
- Hanger: *See*—
Clothes hanger. Garment hanger.
Door hanger.
- Hat box. A. Fogel. No. 1,421,443; July 4.
- Headlight. A. S. Limpert. No. 1,421,506; July 4.
- Headlight-controlling mechanism. W. F. Harrington. No. 1,421,775; July 4.
- Headlight, Dirigible. A. L. Brogden. No. 1,422,025; July 4.
- Headlight for locomotives, Dirigible. G. H. Anthony. No. 1,421,368; July 4.
- Headlights, Nonglaring attachment for. C. Schopke. No. 1,421,847; July 4.
- Healing apparatus, Magnetic. S. Maeshima. No. 1,421,516; July 4.
- Heater: *See*—
Air heater. Water heater.
Electric water heater.
- Heating system. J. H. Brown. No. 1,421,902; July 4.
- Hides and preparing the same, Tanning substance for tanning animal. O. Löw-Beer. No. 1,421,701; July 4.
- Hides and skins, Machine for treating. C. P. Bossert. No. 1,421,662; July 4.
- Hinge, Farm-gate. R. McLaughlin. No. 1,421,794; July 4.
- Hinge joint. G. W. Goodridge. No. 1,422,048; July 4.
- Hoist, Fluid. J. P. Hell. No. 1,421,469; July 4.
- Hook: *See*—
Mud hook. Tackle hook.
- Hoop-forming machine. W. W. Putney. No. 1,421,829; July 4.
- Hoop-stretching device. W. B. Gilbert. No. 1,421,935; July 4.
- Hydrochemical cleaner. B. McCarty. No. 1,421,971; July 4.
- Hydrochinon, Making. H. Von Bramer. No. 1,421,869; July 4.
- Ice-cream freezers, Support for. F. D. Rugg. No. 1,421,724; July 4.
- Ignition and lighting switch. L. D. Kellogg. No. 1,421,493; July 4.
- Illuminating apparatus. J. A. Lockwood. No. 1,421,509; July 4.
- Illuminating mechanism. D. W. Schaeffer. No. 1,421,838; July 4.
- Incense burner and perfumer. L. Weidlich and A. J. Flauder. No. 1,421,633; July 4.
- Index or file. C. S. Campbell and W. H. Day. No. 1,421,670; July 4.
- Indicator: *See*—
Direction indicator. Railway-track indicator.
- Indicator lock. L. J. Corbitt. No. 1,421,411; July 4.
- Ink fountains, Page cut-off device for. H. A. W. Wood. No. 1,422,017; July 4.
- Insole. L. E. Topham. No. 1,421,619; July 4.
- Insulating container and the like. W. L. Wright. No. 1,421,649; July 4.
- Internal-combustion engine. A. I. Sletten. No. 1,421,594; July 4.
- Internal-combustion engine. J. H. Wedig. No. 1,421,632; July 4.
- Internal-combustion engine. G. G. Westerfield. No. 1,421,878; July 4.
- Iron: *See*—
Electric press iron.
- Iron from solutions containing aluminum, Removing. T. Majdell. No. 1,421,804; July 4.
- Irons, Stand and automatic switch for electric. A. J. Shirk and S. Cohen. No. 1,421,586; July 4.
- Irons, Stand and automatic switch for electric. A. J. Shirk and S. Cohen. No. 1,421,850; July 4.
- Jack: *See*—
Lifting jack.
- Jar holder. T. G. Melish. No. 1,421,705; July 4.
- Jewelry coupling. A. Bippart. No. 1,421,388; July 4.
- Joint: *See*—
Handle joint. Universal joint.
Hinge joint.
- Journal-box cooler. J. Hinson. No. 1,421,473; July 4.

- Kapok, Handling. L. G. Broel. No. 1,421,663; July 4.
 King bolt. A. Egbert and E. Holmes. No. 1,421,768; July 4.
 Knitted cap. B. Spector and L. E. Rosenberg. No. 1,421,602; July 4.
 Label, Nursery. G. I. Colburn. No. 1,421,674; July 4.
 Ladder construction. L. H. Badger. No. 1,421,372; July 4.
 Lamp. A. J. Christmas. No. 1,421,406; July 4.
 Lamp extinguisher. T. H. B. Howard. No. 1,422,059; July 4.
 Lamp shade. J. M. Crucet. No. 1,421,415; July 4.
 Lapping machine. W. S. Becker. No. 1,421,659; July 4.
 Latch for steering controllers. Safety. J. Hoffman. No. 1,421,475; July 4.
 Level indicator. Distant boiler-water. H. S. Parks. No. 1,421,711; July 4.
 License-plates fastener. G. Pendergast and R. F. Ethier. No. 1,421,548; July 4.
 Life-saving fender. J. E. Wyckoff. No. 1,421,650; July 4.
 Lifting jack. A. and H. E. Shrieves. No. 1,421,590; July 4.
 Light: See—
 Sadiron light.
 Light-diffusing medium and making the same. L. W. Eberlin and S. E. Sheppard. No. 1,421,924; July 4.
 Link. J. V. Sandquist. No. 1,421,997; July 4.
 Liquid-distributor discharge mechanism. F. E. Bager. No. 1,421,373; July 4.
 Liquid-level gauge. I. Andersson. No. 1,421,365; July 4.
 Liquids of different density, Separator employed for the separation of. W. H. Bateman. No. 1,421,658; July 4.
 Lock: See—
 Auto lock. Indicator lock.
 Cushion lock.
 Lock. G. F. Mayer. No. 1,421,522; July 4.
 Locking devices with electric locking of the releasing means, Electromagnet for momentarily releasable. K. F. Kappes. No. 1,421,951; July 4.
 Locking means. D. A. Raggio. No. 1,421,563; July 4.
 Locomotive stokers, Driving mechanism for. J. W. Rohrer. No. 1,421,994; July 4.
 Loom rock-shaft bearing. J. A. Wix. No. 1,422,016; July 4.
 Loom-temple thread cutter. J. Northrop. No. 1,421,815; July 4.
 Looms, etc., Device for dampening the warp on. H. Koch. No. 1,421,498; July 4.
 Looms, Wire motion for. J. F. Benoit. No. 1,421,897; July 4.
 Lubricating device. G. Fuegel and H. Schmid. No. 1,421,681; July 4.
 Lubricating device. W. P. Seng. No. 1,421,582; July 4.
 Lubrication apparatus provided with pumps, Forced. K. G. F. Hellsing. No. 1,421,470; July 4.
 Lubricator: See—
 Spring lubricator. Valve-stem lubricator.
 Lubricator. S. P. Jones. No. 1,421,487; July 4.
 Manometer. C. W. Stancliffe. No. 1,421,739; July 4.
 Map holder. W. W. Wright. No. 1,421,883; July 4.
 Marking machine, Electric fruit. L. Neuenschwander. No. 1,421,539; July 4.
 Massage apparatus. C. Arnao. No. 1,421,756; July 4.
 Mat: See—
 Rubber mat.
 Measuring and cost-computing machine, Cloth. G. C. Hesch and G. B. Kyle. No. 1,421,943; July 4.
 Measuring apparatus, Liquid. H. R. Koehler. No. 1,421,499; July 4.
 Measuring machines, Lock for notching shears of. D. Turner. No. 1,421,863; July 4.
 Merry-go-round and roller board, Combined. A. F. Haumerson. No. 1,421,468; July 4.
 Metal compound powder and production of same. W. P. Heskett. No. 1,421,471; July 4.
 Metal pipe, Lapping. S. J. Lindberg. No. 1,421,507; July 4.
 Metallic containers, Removable false head for. C. T. Draper. No. 1,422,043; July 4.
 Meter. E. B. Cade. No. 1,421,905; July 4.
 Meter box cover. J. W. Calhoun. No. 1,421,669; July 4.
 Milk, Automatic alarm mechanism for pasteurizing. P. Malsam. No. 1,421,517; July 4.
 Milk skimmer. C. E. Chambers. No. 1,421,909; July 4.
 Milk tanks, Friction drive for. G. H. White. No. 1,421,641; July 4.
 Milking-machine system. C. H. Hapgood. No. 1,421,773; July 4.
 Mine-fire-fighting apparatus. J. Klewanec. No. 1,421,496; July 4.
 Minerals, Collecting and purifying. W. E. Trent. No. 1,421,862; July 4.
 Mining machines, Support for. T. E. Pray. No. 1,421,557; July 4.
 Mold: See—
 Confection mold. Popcorn mold.
 Molding composition. J. L. Keller. No. 1,421,954; July 4.
 Motor: See—
 Electric motor. Spring-operated motor.
 Motor and other cycles, Rear brake for. F. Platscher. No. 1,421,552; July 4.
 Motors, Mounting for outboard. R. B. Owen. No. 1,421,710; July 4.
 Motors, Safety crank for internal-combustion. S. C. Waits. No. 1,421,624; July 4.
 Mud hook. C. N. Gerosa. No. 1,421,452; July 4.
 Musical instruments, Keyboard for. P. Hans. No. 1,421,464; July 4.
 Needle, Embroidery. L. D. Hover. No. 1,421,479; July 4.
 Numbering head. C. A. Meisel. No. 1,421,525; July 4.
 Nut. J. A. Wheeler. No. 1,421,638; July 4.
 Oil-well drill bit. R. J. Brown. No. 1,421,396; July 4.
 Oils, Treatment of hydrocarbon. D. T. Day. No. 1,422,038; July 4.
 Oiling device. W. P. Seng. No. 1,421,583; July 4.
 Ophthalmic mounting. E. L. Schumacher. No. 1,421,729; July 4.
 Ordnance breech mechanism. A. T. Dawson and G. T. Buckham. No. 1,422,037; July 4.
 Ores by flotation, Concentration of. G. E. Sheridan and G. G. Griswold, Jr. No. 1,421,585; July 4.
 Ovens, Air-circulating system for industrial. W. C. Ehmka. No. 1,421,429; July 4.
 Packaging equipment, Automatic. E. B. Elder. No. 1,421,925; July 4.
 Packing for mercury dashpots. W. Edwards. No. 1,421,767; July 4.
 Pad: See—
 Resilient stamp pad.
 Paint and making same. C. A. Ward. No. 1,421,625; July 4.
 Paint composition. J. B. McCartney. No. 1,421,970; July 4.
 Pan with overflow-alarm device. A. Renda. No. 1,421,717; July 4.
 Paper box. H. C. Kessler. No. 1,421,494; July 4.
 Paper-making machine. A. Aldrich. Nos. 1,421,753-4; July 4.
 Paper-making machine. A. Aldrich and A. L. Larson. No. 1,421,752; July 4.
 Paper-making machines, Method of and apparatus for feeding pulp to the forming wires of. J. M. Murray. No. 1,421,981; July 4.
 Paper material container and the like. W. L. Wright. No. 1,422,018; July 4.
 Paper winder, Toilet. L. Scusa. No. 1,421,730; July 4.
 Paring machine, Vegetable. F. M. Schaefer. No. 1,421,837; July 4.
 Pattern-transfer machine. P. Yohns. No. 1,421,884; July 4.
 Pavement. F. A. Brotsch, Jr. No. 1,421,901; July 4.
 Paving blocks, building blocks, and the like, Composition of matter for. G. S. and C. W. Wright. No. 1,421,751; July 4.
 Pen, Ruling. C. A. Green and H. F. Schuh. No. 1,421,455; July 4.
 Pencil and pen clip. A. Allen. No. 1,421,657; July 4.
 Pencil grip. V. Murdock. No. 1,421,535; July 4.
 Pencil, Magazine. J. Straka. No. 1,421,742; July 4.
 Phonograph. J. Youngquist. No. 1,421,652; July 4.
 Phonograph disks, Display rack for. C. A. Bower. No. 1,421,391; July 4.
 Photographic-printing machine. M. L. Cossitt. No. 1,421,413; July 4.
 Photogravure press, Rotary. H. V. Biery. No. 1,421,360; July 4.
 Picture frame. L. Fritz. No. 1,421,448; July 4.
 Pie-making machine. F. C. Eilersen. No. 1,421,430; July 4.
 Pin guide. G. C. L. Tisch. No. 1,421,861; July 4.
 Pipe: See—
 Lapping metal pipe.
 Pipe lines, Safety control for hydraulic. E. Buehle and E. C. Hutchinson. No. 1,421,904; July 4.
 Piston packing. L. C. Marshall. No. 1,421,802; July 4.
 Pitcher, tumbler, and package. P. Kucera. No. 1,421,696; July 4.
 Platform, Movable painter's. E. J. Sturm and M. Sturms. No. 1,421,609; July 4.
 Plating machine. S. A. Cohen. No. 1,421,912; July 4.
 Plow, Disk. S. C. Attaway. No. 1,421,371; July 4.
 Pocket for overalls, working shirts, and the like, Watch. C. T. Masson. No. 1,421,519; July 4.
 Pop-corn mold. N. B. Post. No. 1,421,555; July 4.
 Porosity, Apparatus for indicating. C. Buberl. No. 1,421,903; July 4.
 Powder, Bleaching. E. T. Ladd and E. C. Speiden. No. 1,421,503; July 4.
 Power transmission and electric braking. A. F. Batchelder. No. 1,421,894; July 4.
 Power transmission and electric braking. F. H. Pritchard. No. 1,421,828; July 4.
 Power-transmission apparatus. W. C. Reed. No. 1,421,565; July 4.
 Power-transmitting mechanism. E. H. Belden. No. 1,421,761; July 4.
 Press: See—
 Arbor press. Rotary photogravure press.
 Press iron Electric. A. J. Shirk and S. Cohen. Nos. 1,421,587-9; July 4.
 Pressure gauge. H. E. Harder. No. 1,421,774; July 4.
 Pressure-operated switch, Automatic. W. L. Hamilton. No. 1,421,940; July 4.
 Printed products, Machine for counting out and marking. C. Nordfors. No. 1,421,983; July 4.
 Printing couple. C. Nordfors. No. 1,421,982; July 4.
 Printing frame. J. D. Thompson. No. 1,421,859; July 4.

- Printing machine. F. De Minico. No. 1,421,920; July 4.
 Printing presses, Finger guard for. G. H. Dufour. No. 1,421,424; July 4.
 Printing presses, Perforator for. D. J. Deegan. No. 1,421,417; July 4.
 Propeller. F. L. Guillemet. No. 1,421,460; July 4.
 Pulley bushing, Split loose. T. F. Barry. No. 1,421,377; July 4.
 Pulley, Tight band. H. W. Morgan and E. P. Holder. No. 1,421,708; July 4.
 Pulling-over machine. E. Brothers. No. 1,421,394; July 4.
 Pulp and the like, Drum for drying. C. L. Dean. No. 1,422,039; July 4.
 Pulp, Method of and apparatus for washing. O. B. Brown, H. K. Moore, H. Parker, and H. M. Martinson. No. 1,421,664; July 4.
 Pulp-thickening machine. C. H. Allen. No. 1,421,364; July 4.
 Pulverized-fuel furnace. L. H. Bergman. No. 1,421,898; July 4.
 Pulverulent material, Concentrating. F. Ondra. No. 1,421,984; July 4.
 Pump, Oil. H. E. Rhoads. No. 1,421,718; July 4.
 Pump, Oil. H. H. Watkins. No. 1,421,629; July 4.
 Pump, Rotary. H. J. Edwards. No. 1,421,766; July 4.
 Pumps, Device for preventing the penetration of air into centrifugal. B. Bischof. No. 1,421,389; July 4.
 Pumps, Suction intake for. J. B. Fisher. No. 1,421,440; July 4.
 Pumping apparatus. R. Conrader. No. 1,421,409; July 4.
 Rack: See—
 Yarn rack.
 Radiator. E. Ochsner. No. 1,421,542; July 4.
 Radiator. D. O. Parkin. No. 1,421,546; July 4.
 Rail fastener. J. P. Gardner. No. 1,421,682; July 4.
 Rail fastening. L. D. Gregg. No. 1,421,457; July 4.
 Railway switch. T. C. Folsom. No. 1,421,444; July 4.
 Railway switch. D. E. Lahey. No. 1,421,963; July 4.
 Railway-switch filler. D. E. Lahey. No. 1,421,962; July 4.
 Railway-track construction. A. Tauchar. No. 1,422,010; July 4.
 Railway-track indicator. F. Garagnani. No. 1,422,047; July 4.
 Railway-traffic-controlling system. G. C. Whitney. No. 1,421,880; July 4.
 Railways, Axle-recording device for. W. Kolbe and J. Fritzen. No. 1,421,500; July 4.
 Ratchet tool, Combination. A. E. Linden. No. 1,421,792; July 4.
 Reel: See—
 Fishing reel.
 Reel frame. H. Koch and H. Müller. No. 1,421,497; July 4.
 Refrigerator attachment. C. F. Stiel. No. 1,421,607; July 4.
 Refuse burner. J. T. Stoddard. No. 1,421,741; July 4.
 Register. J. S. Boyd. No. 1,422,024; July 4.
 Resilient wheel. H. R. Shafer. No. 1,421,584; July 4.
 Revolver holster, Safety. J. Schussler. No. 1,421,578; July 4.
 Ring: See—
 Connecting ring.
 Roads, Making. L. S. van Westrum. (Reissue.) No. 1,421,401; July 4.
 Roll, Snapping. H. F. Gritzmacher. No. 1,421,459; July 4.
 Roller: See—
 Tandem roller.
 Rolling mills, Lubricating device for. G. E. Melown. No. 1,421,805; July 4.
 Rope clamp. C. Beecken. No. 1,421,385; July 4.
 Rotary cutter, Self-oiling. C. J. Petrasek. No. 1,421,713; July 4.
 Rubber garter. E. G. Howard. No. 1,421,690; July 4.
 Rubber mat. C. H. Oakley. No. 1,421,818; July 4.
 Rubber sheets, Apparatus for producing thin. O. H. Macklin. No. 1,421,795; July 4.
 Saddler's chest. L. B. Craig. No. 1,421,916; July 4.
 Sadriron light. C. L. Malloy. No. 1,421,973; July 4.
 Safe-deposit construction. J. Freyberg and L. F. Wubbolding. No. 1,421,770; July 4.
 Sand gathering and elevating machine. E. O. Beardsley and W. F. Piper. No. 1,421,383; July 4.
 Sash fastener, Storm-. W. Mandel. No. 1,421,798; July 4.
 Sash-locking device. J. Zak. No. 1,422,020; July 4.
 Saw. J. G. Mattson. No. 1,421,520; July 4.
 Saw, Frame. G. Müller. No. 1,421,533; July 4.
 Saw handle, Crosscut-. J. F. Williams. No. 1,422,015; July 4.
 Scales, Thermostat for portable. L. A. Osgood. No. 1,421,825; July 4.
 Scraper. H. Baum. No. 1,421,380; July 4.
 Scraper, charger, and tamper, Combination. T. J. Avery. No. 1,421,358; July 4.
 Screw cap. J. M. Abrams. No. 1,421,885; July 4.
 Sealing device. V. Puc. No. 1,421,714; July 4.
 Seat: See—
 Automobile seat.
 Seine-operating mechanism. T. Running. No. 1,421,996; July 4.
 Sewage purifier. J. P. Ball. No. 1,421,891; July 4.
 Sewing-machine looper mechanism. R. R. Hughes, Jr. No. 1,422,060; July 4.
 Sewing-machine shuttles, Adjunct for. L. E. Weaver. No. 1,421,873; July 4.
 Sewing machines, Presser-foot attachment for. E. J. Maloney. No. 1,421,797; July 4.
 Sewing machines, Stitch-forming mechanism for chain-stitch. A. F. Fifield. No. 1,421,438; July 4.
 Shaft and making same, Flexible. C. H. Veeder. No. 1,421,623; July 4.
 Sheet-straightening apparatus. P. Volkmere. No. 1,421,868; July 4.
 Shell. H. E. Winans. No. 1,421,882; July 4.
 Shim. F. J. Fliinn. No. 1,421,441; July 4.
 Ship's log. B. Chernikeff. No. 1,421,405; July 4.
 Ships, Method of and apparatus for raising sunken. A. Allan. No. 1,421,887; July 4.
 Shipping device. R. H. Langford. No. 1,421,964; July 4.
 Shirt bosom and body machine. C. H. Boyuls. (Reissue.) No. 15,395; July 4.
 Shock absorber. K. Micklely. No. 1,421,977; July 4.
 Shock absorber. J. F. O'Connor. Nos. 1,421,819-20; July 4.
 Shock-absorbing mechanism, Friction. J. F. O'Connor. Nos. 1,421,821-2; July 4.
 Shoe lasts, Protecting. F. L. Morse. No. 1,421,980; July 4.
 Shoe-shining machine. J. Smythe. No. 1,421,597; July 4.
 Shoe-shining parlor. D. D. Wolfe. No. 1,421,646; July 4.
 Shoe-string tips. R. F. Schiller. No. 1,421,999; July 4.
 Showcard, calendar, and the like. W. J. Anderson. No. 1,421,367; July 4.
 Sifter. Ash. P. Mischke. No. 1,421,809; July 4.
 Sifter. Ash. R. A. Thiede. No. 1,422,011; July 4.
 Signal: See—
 Switchboard signal.
 Signal. V. R. Rindt. No. 1,421,990; July 4.
 Signaling device. L. S. Keilholtz. No. 1,421,953; July 4.
 Signs or similar articles, Means for supporting. H. M. Stanton. No. 1,421,603; July 4.
 Siphon, Double-knee. F. Moras. No. 1,421,531; July 4.
 Skate, Roller. J. Muck. No. 1,421,532; July 4.
 Skids, Antifriction. G. L. Noll. No. 1,421,540; July 4.
 Slippers, Blank for. M. Hirshfield. No. 1,421,474; July 4.
 Snap fasteners, Mechanism for sorting the socket members of. V. Puc. No. 1,421,715; July 4.
 Snowplow, Dual rotary. J. C. Chladek. No. 1,421,671; July 4.
 Snubber. D. V. Boureau. No. 1,421,900; July 4.
 Socket switch, Pull-. R. D. Smith. No. 1,421,853; July 4.
 Sole tacker. C. F. Ziegler. No. 1,421,655; July 4.
 Soot blower. J. M. Colven and A. Lowy. No. 1,421,675; July 4.
 Sound recording and reproducing machine. W. E. Birket. No. 1,422,022; July 4.
 Sound reproducers, Apparatus for resetting. J. J. Riser. No. 1,421,568; July 4.
 Sounder, Deep-sea. W. E. Clarke. No. 1,421,672; July 4.
 Spacing bar. F. L. Metzger. No. 1,421,807; July 4.
 Speed-changing mechanism. W. I. Wheeler. No. 1,421,639; July 4.
 Speed-indicating device. J. V. Bosque and P. Giró y Casanas. No. 1,421,390; July 4.
 Spinning cotton rovings, High-slip-draft apparatus for. O. Latsch. No. 1,421,965; July 4.
 Spinning machines, Ring-rail, brace for. J. R. Hanson and J. R. Shepherd. No. 1,421,466; July 4.
 Spool machines, Feed wheel for. C. S. Brown. No. 1,421,395; July 4.
 Spotlight. F. L. Humiston. No. 1,421,944; July 4.
 Spring: See—
 Vehicle spring.
 Spring horn and bumper support, Combined. W. R. Stuckland. No. 1,421,608; July 4.
 Spring lubricator. J. F. A. Phillips. No. 1,421,551; July 4.
 Spring-operated motor. J. C. Foster. No. 1,421,932; July 4.
 Spring suspension. E. H. Belden. No. 1,421,759; July 4.
 Springs, Machine for making. R. D. Reese. No. 1,421,566; July 4.
 Sprocket wheel. R. J. Riley. No. 1,421,832; July 4.
 Stamp pad, Resilient. R. H. Kee and W. K. Munson. No. 1,421,952; July 4.
 Stamping machine. T. Lund. No. 1,421,511; July 4.
 Stamping machine for cutting out articles from sheet metal. T. H. Wilson. (Reissue.) No. 15,402; July 4.
 Starting device, Motor-. J. O. Q. Johnson. No. 1,422,063; July 4.
 Steam cooker. W. A. Duncan. No. 1,421,425; July 4.
 Steam engine, Rotary. C. O. Baner. No. 1,421,892; July 4.
 Stereotyper's and printer's tool. S. B. Hopkins. No. 1,421,689; July 4.
 Sterilizer for instruments and dressings. O. Barta. No. 1,421,893; July 4.
 Stoker, Mechanical. J. J. Dersom. No. 1,421,419; July 4.
 Storage-battery containers, Making. T. A. Willard. No. 1,421,748; July 4.
 Stove, Camp. L. M. Boyle. No. 1,421,393; July 4.
 Store for ships, Self-leveling. G. W. Baker. No. 1,421,890; July 4.
 Strainer for milk cans, pails, and the like. N. J. Van Ness. No. 1,421,622; July 4.

- Strap fastener. C. S. Nonnemacher. Nos. 1,421,813-4; July 4.
- Strip-folding mechanism. F. M. Joslin. No. 1,421,489; July 4.
- Strip or sheet metal structure. A. P. Thurston. No. 1,421,618; July 4.
- Stud and socket fastener. G. A. Holmes. No. 1,421,476; July 4.
- Sulphur. Process and apparatus for melting. H. S. Davis and R. F. Bacon. No. 1,421,416; July 4.
- Superheater. Steam. C. A. Parsons and S. S. Cook. No. 1,421,712; July 4.
- Surplus material. Machine for removing. B. Jorgensen. No. 1,421,488; July 4.
- Sweeper, Suction. J. B. Kirby. Nos. 1,421,957-8; July 4.
- Switch: See—
- Electric switch. Pressure-operated switch.
 - Ignition and lighting Pull-socket switch.
 - switch. Railway switch.
- Switch mechanism. H. M. Stevens. No. 1,421,740; July 4.
- Switch plate. A. Frinzi. No. 1,421,447; July 4.
- Switchboard signal. G. Carlson. No. 1,421,403; July 4.
- Table: See—
- Combination table. Folding table.
- Tachometer. J. H. Veeder. No. 1,421,865; July 4.
- Tackle hook. C. H. Flynn, Jr. No. 1,421,442; July 4.
- Take-up device. Automatic. F. Jerdone, Jr. Nos. 1,421,783-4; July 4.
- Talking machines, Motor for. F. Cheney. No. 1,421,404; July 4.
- Tandem roller. F. A. Browne. No. 1,421,665; July 4.
- Tank and closure. C. E. Glessner. No. 1,421,454; July 4.
- Tanning. A. Römer and L. Blangey. No. 1,421,722; July 4.
- Tanning with aluminum salts. O. Röhm. No. 1,421,723; July 4.
- Teeth, Apparatus for casting fillings for. W. H. Richards. No. 1,421,988; July 4.
- Teeth mounts, Artificial. H. A. Edwards. No. 1,422,044; July 4.
- Telegraphy and other purposes. Thermionic apparatus for wireless. L. B. Turner. No. 1,422,013; July 4.
- Telephony. H. S. Turner. No. 1,421,864; July 4.
- Testing apparatus. R. G. McCurdy. No. 1,421,702; July 4.
- Testing machine. W. J. Raftery. No. 1,421,562; July 4.
- Textile and other fabrics, thread, yarn, and the like, Treating. J. Takamine and J. Takamine, Jr. No. 1,421,613; July 4.
- Textile fabrics, Means for stiffening. O. Lobeck. No. 1,421,700; July 4.
- Thimble and stovepipe holder, Combined. S. E. Barr. No. 1,421,359; July 4.
- Thrashing machine. F. Boe. No. 1,422,023; July 4.
- Three-position operating mechanism. O. S. Field. No. 1,421,769; July 4.
- Thrust bearing, Adjustable. C. A. Maris. No. 1,421,518; July 4.
- Tie: See—
- Wire tie.
- Time recorder. G. W. Odell. No. 1,421,824; July 4.
- Timepiece, Repeater. E. A. Marsh. No. 1,421,801; July 4.
- Tire and rim therefor, Cushion. U. Anderson. No. 1,421,755; July 4.
- Tire-chain hook. Automobile. H. Schuchman. No. 1,421,577; July 4.
- Tire-chain retainer. G. J. La Vigne. No. 1,421,966; July 4.
- Tire core, Collapsible. H. A. Denmire. No. 1,421,418; July 4.
- Tire filler, Soft-rubber. M. W. Needham. No. 1,421,537; July 4.
- Tire, Resilient. R. Curry. No. 1,421,917; July 4.
- Tire, Tool for releasing an air valve from rim of an automobile. E. Quinn. No. 1,421,987; July 4.
- Tire valves, Pressure-retaining dust cap for pneumatic. T. J. Dery. No. 1,421,420; July 4.
- Tires, Forming. W. G. Fording. No. 1,422,046; July 4.
- Tires, Making liners for reinforcing the covers of pneumatic. W. H. A. Theed and A. T. Phillips. No. 1,421,616; July 4.
- Tires, Permanent air gauge for pneumatic. E. Jung. No. 1,421,490; July 4.
- Tires, Quick-detachable dust cap for pneumatic. W. E. Williams. No. 1,421,642; July 4.
- Toilet case. D. S. Wilson. No. 1,421,645; July 4.
- Tool. C. H. Wagner. No. 1,421,871; July 4.
- Tool box. A. B. Slack. No. 1,421,732; July 4.
- Tool holder. V. Hovanec. No. 1,422,058; July 4.
- Tools, Means for automatically cutting off the feed motion of machine. N. J. Olsson. No. 1,421,544; July 4.
- Tooth-cleaning device. A. B. Cohen. No. 1,421,911; July 4.
- Toothbrush. W. L. Webster. No. 1,421,875; July 4.
- Torpedoes, Gyroscopic apparatus for. E. A. Sperry. No. 1,421,854; July 4.
- Toy. E. F. Juergens. No. 1,421,694; July 4.
- Toy. L. Orussa. No. 1,421,985; July 4.
- Toy aeroplane. H. M. Watts. No. 1,421,631; July 4.
- Toy aeroplane. J. C. Van Etten. No. 1,421,621; July 4.
- Tracing device. J. N. Meyers. No. 1,421,975; July 4.
- Track, Self-shifting. H. J. Benton. No. 1,421,387; July 4.
- Tractor. E. Wertenberger. No. 1,421,635; July 4.
- Trailer. H. Kaperfer. No. 1,421,482; July 4.
- Trailer-steering device. R. H. De Launty. No. 1,422,040; July 4.
- Train-control system. E. J. Blake. No. 1,421,762; July 4.
- Train-operated gate. H. C. McConnell. No. 1,421,512; July 4.
- Train pipe connector, Automatic. J. V. Robinson. (Re-issue.) No. 15,400; July 4.
- Transformer. R. V. Bingay. No. 1,421,899; July 4.
- Transmission. H. C. Raines. No. 1,421,375; July 4.
- Transmission lever-locking device. A. M. Hamilton. No. 1,421,463; July 4.
- Transmission mechanism, Gearless. L. C. Cattol. No. 1,421,908; July 4.
- Trap: See—
- Game trap.
- Trap. G. M. Gould. No. 1,422,049; July 4.
- Trolley wire stretcher and splicer, Combination. D. R. Hunley. No. 1,421,481; July 4.
- Trough. R. A. Bagnell. No. 1,421,374; July 4.
- Trousers supporter. W. M. McFarland. No. 1,421,514; July 4.
- Truck, Trailer. A. B. Cadman. No. 1,421,402; July 4.
- Turnbuckle. C. H. Veeder. No. 1,421,866; July 4.
- Typewriters, Ribbon mechanism for. O. A. Hokanson. No. 1,421,780; July 4.
- Typewriting-instruction machine. O. J. Hanson. No. 1,422,053; July 4.
- Typewriting machine. A. A. Johnson. No. 1,421,946; July 4.
- Typewriting machine. G. A. Seib. No. 1,421,581; July 4.
- Universal joint. W. H. Thieme. No. 1,421,617; July 4.
- Vacuum container. C. E. Glessner. No. 1,421,685; July 4.
- Vacuum oiling system. F. W. Thomas and M. D. Kimball. No. 1,421,858; July 4.
- Valve. G. P. Haynes. No. 1,421,687; July 4.
- Valve, Faucet. E. L. Cunningham. No. 1,421,765; July 4.
- Valve for gauge cocks. H. W. Ryalls. No. 1,421,572; July 4.
- Valve grinders, Operating devices for. E. R. Jones. No. 1,421,486; July 4.
- Valve of a gas burner or gas supply, Electrically-operated. J. Wolfson. No. 1,421,648; July 4.
- Valve, Priming. R. W. and P. B. Linley. No. 1,421,793; July 4.
- Valve-stem lubricator. E. E. Parslow. No. 1,421,826; July 4.
- Vault front and door construction. J. Freyberg and L. F. Wubbolding. No. 1,421,771; July 4.
- Vehicle. J. W. Collier. No. 1,422,034; July 4.
- Vehicle axle. A. W. Russel. No. 1,421,836; July 4.
- Vehicle top curtain. F. L. Burns. No. 1,421,400; July 4.
- Vehicle driving wheels, Driving cleat mechanism for motor. A. T. Sturt. No. 1,422,009; July 4.
- Vehicle fender. O. G. Jones. No. 1,421,693; July 4.
- Vehicle, Motor. E. H. Belden. No. 1,421,757; July 4.
- Vehicle, Motor. A. E. Osborn. No. 1,421,545; July 4.
- Vehicle sled. T. W. Dinning and E. H. Clymer. No. 1,422,041; July 4.
- Vehicle spring. F. V. Cooke. No. 1,421,410; July 4.
- Vehicle spring wheel. C. Mieth. No. 1,421,808; July 4.
- Vehicles, Decking apparatus for. E. Holmes. No. 1,421,782; July 4.
- Vehicles, Direction indicator for motor. F. Skarzynski. No. 1,422,005; July 4.
- Vehicles, Load bracing and ventilating device for. G. Sykes. No. 1,421,612; July 4.
- Vehicles, Resilient wheel for. R. Linn. No. 1,421,508; July 4.
- Vehicles, Sand-delivery device for. J. C. Taylor. No. 1,421,745; July 4.
- Vehicles, Spring Suspension for. E. H. Belden. No. 1,421,758; July 4.
- Vehicles, Spring suspension for. E. H. Belden. No. 1,421,760; July 4.
- Vehicles, Tilting reflector for motor. H. L. Watson. No. 1,421,630; July 4.
- Vending machine and the like. G. C. Reith. No. 1,421,831; July 4.
- Vending machine, Coin-controlled. H. Giles. No. 1,421,453; July 4.
- Vending machine, Liquid. J. Fritsche. No. 1,421,680; July 4.
- Viner, Green-pea. F. Hamachek. No. 1,421,772; July 4.
- Violin bow. G. M. Loth. No. 1,421,510; July 4.
- Voting booth. I. S. Draper. No. 1,421,423; July 4.
- Vulcanizing apparatus. W. R. Urquhart, C. W. Post, D. E. Humphrey, and C. C. Van Arsdale. No. 1,422,065; July 4.
- Wall attachment. H. C. Hanson. No. 1,422,052; July 4.
- Wall construction. E. V. Phillips. No. 1,421,986; July 4.
- Washing machine. C. G. Hall. No. 1,421,462; July 4.
- Watches, Second-hand-setting mechanism for. A. Burnstine. No. 1,421,668; July 4.
- Water heater. R. J. Hutchins. No. 1,421,692; July 4.
- Water-lifting apparatus, Automatically-operating hydro-pneumatic. R. B. McConney. No. 1,421,513; July 4.
- Waterer, Stock. A. C. Westby. No. 1,421,636; July 4.
- Weatherproofing clay. W. H. Allen. No. 1,421,888; July 4.
- Weighing mechanism, Automatic. E. B. Elder. No. 1,421,926; July 4.
- Welding machine, Tube. E. Kamper. No. 1,421,786; July 4.

Wells, Excluding water from oil and gas. R. V. Mills. No. 1,421,706; July 4.	Window-shade fixture. G. B. Holland. No. 1,422,056; July 4.
Wheel: <i>See</i> —	Windshield attachment. A. S. Harden. No. 1,421,467; July 4.
Automobile wheel.	Windshield sunshade. G. A. Holsberg. No. 1,421,942; July 4.
Car wheel.	Wire-rope socket. E. W. Daniel. No. 1,421,976; July 4.
Resilient wheel.	Wire tie. E. Holmes. No. 1,421,781; July 4.
Sprocket wheel.	Woodworking tool. S. Sorenson. No. 1,421,599; July 4.
Vehicle spring wheel.	Worm gearings. Worm for. H. Seemann. No. 1,421,580; July 4.
Wheel disks, Making. E. G. Budd. No. 1,421,667; July 4.	Wrench. P. F. Anderson. No. 1,421,366; July 4.
Wheels, Rim for steering. J. Erickson. No. 1,421,434; July 4.	Wrench. F. R. Gilby. No. 1,421,936; July 4.
Window-mounting device. H. Faurot, Jr. No. 1,421,927; July 4.	Wrench. B. Myer and J. Brown. No. 1,421,536; July 4.
Window-operating device. C. I. Goldblatt. No. 1,421,938; July 4.	Yarn rack. W. S. Trickett. No. 1,422,012; July 4.
Window-operating means. J. Parsons. No. 1,421,547; July 4.	

ALPHABETICAL LIST OF DESIGNS.

Apron, Dress. M. White. No. 61,182; July 4.	Memorandum stand. S. Jaffe. No. 61,163; July 4.
Broom holder. F. G. Howe. No. 61,162; July 4.	Paper, Safety. C. Kres. Nos. 61,165-6; July 4.
Clock case. L. E. Macomber. No. 61,170; July 4.	Paper, Safety. F. Meyer. Nos. 61,173-4; July 4.
Clock case. F. A. Weidman. No. 61,181; July 4.	Phonograph cabinet. J. Wolff. No. 61,183; July 4.
Confection rack, Swivel. J. Lazerus. No. 61,168; July 4.	Pincushion, Doll. M. M. Farrell. No. 61,153; July 4.
Corset. G. L. Nickerson. No. 61,175; July 4.	Ring or similar article. J. W. Mayer. Nos. 61,171-2; July 4.
Doll. A. P. Handley. No. 61,158; July 4.	Shade frame, Art metal. A. Steffen. No. 61,178; July 4.
Doll. J. A. Hayes. Nos. 61,159-60; July 4.	Sole or tap. D. Freeman. No. 61,157; July 4.
Doll. W. B. Van Valin. No. 61,179; July 4.	Textile fabric. W. Dowling. No. 61,152; July 4.
Doll, Baseball-player. W. B. Van Valin. No. 61,180; July 4.	Tire. A. A. Frank. No. 61,155; July 4.
Doll or statuette. A. W. Kurfiss. No. 61,167; July 4.	Tire. W. F. Hoelzer and J. T. Johnson. No. 61,161; July 4.
Doll or statuette. G. W. Sisk. No. 61,176; July 4.	Tire. J. T. Johnson. No. 61,164; July 4.
Emblem, badge, or button. A. E. Chase. No. 61,151; July 4.	Tire for vehicles, Solid-rubber. H. H. Boucher. No. 61,150; July 4.
Heel, Shoe. D. Freeman. No. 61,156; July 4.	Tire tread, Pneumatic. H. S. Berlin. No. 61,148; July 4.
Lace. T. H. Smedley. No. 61,177; July 4.	Toy shackle. J. E. Blake. No. 61,149; July 4.
Leather, wall paper, or similar article of manufacture. H. G. Wurm. No. 61,184; July 4.	Toy, Whirligig. H. M. Fletcher. No. 61,154; July 4.
Lighting fixture. H. C. Adam. No. 61,147; July 4.	Toy windmill. S. A. Gill. No. 61,185; July 4.
Lighting fixture, Principal central body of a. H. C. Adam. No. 61,146; July 4.	Vase. A. A. Lyon. No. 61,169; July 4.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

- Alarms, Hold-up. Padua "Hold-Up" Alarm Corporation. No. 156,600; July 4.
- Bed springs. Gangelhoff Bros. No. 156,593; July 4.
- Brick and tile for metallurgical furnaces. Crescent Refractories Company. Nos. 156,589-91; July 4.
- Burglar alarms and housings, timer cases, and relays thereof, Electric. O. B. McClintock Company. No. 156,598; July 4.
- Clocks. Keyless Auto Clock Company. No. 156,596; July 4.
- Cloth and terry-bath-robing piece goods, cloth towels, etc., Terry-Hohlfeld Manufacturing Company. No. 156,583; July 4.
- Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk in the piece. Jacob Miller Sons & Co. No. 156,585; July 4.
- Dentifrice. Florence Manufacturing Company. No. 21,733; renewed Sept. 13, 1922.
- Electrical supplies, Certain. Reliable Electric Company. No. 156,601; July 4.
- Electric fixtures, Certain. Eclipse Light Company. No. 156,592; July 4.
- Electric lights and dry batteries, Portable. National Carbon Company. No. 156,599; July 4.
- Electric safety switches. Trumbull-Vanderpoel Electric Manufacturing Co. No. 156,603; July 4.
- Eye lotion. Sassafras Eye Lotion Co. No. 20,890; renewed Mar. 22, 1922.
- Hair nets. C. Wolton. No. 156,588; July 4.
- Ink, Printers' and lithographers'. Ault Wiborg Company. No. 21,933; renewed Nov. 8, 1922.
- Lager beer. The F. & M. Schaefer Brewing Co. No. 21,004; renewed Apr. 19, 1922.
- Liquors and cordials. Gordon & Co. No. 21,734; renewed Sept. 13, 1922.
- Memorandum devices. A. M. Watterson. No. 156,587; July 4.
- Musical, percussion, and similar instruments, Certain. Ludwig & Ludwig. No. 156,597; July 4.
- Packing, Machinery. Goetz Gasket and Packing Company. No. 156,594; July 4.
- Pens and lead pencils, Fountain. Dictator Fountain Pen Company. No. 156,582; July 4.
- Petroleum for internal and external use as a remedy for disease. Refined. Angier Chemical Company. No. 21,224; renewed May 31, 1922.
- Pipe covering for exposed piping. C. G. Woolson. No. 156,604; July 4.
- Refrigerating systems and parts thereof. Automatic Refrigerating Company. No. 156,580; July 4.
- Refrigerators. Coldak Company. No. 156,581; July 4.
- Rifles and shotguns. Marlin Firearms Corporation. No. 156,584; July 4.
- Robes, Night. E. Rosenfeld & Co. No. 21,359; renewed June 28, 1922.
- Roofing tin. A. & G. Taylor Co. No. 20,563; renewed Jan. 5, 1922.
- Silk in the piece. Muser Brothers. No. 156,586; July 4.
- Stationary and locomotive injectors and ejectors. Hayden & Derby Mfg. Company. No. 21,221; renewed May 31, 1922.
- Tobacco, cigars, and cigarettes. Tuckett Tobacco Company. No. 156,602; July 4.
- Varnishes. George L. Wood & Son. No. 20,919; renewed Mar. 20, 1922.
- Watches, dials, movements and parts thereof and watch-cases. S. R. Hoffman. No. 156,595; July 4.

ALPHABETICAL LIST OF LABELS.

- "Admiration." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,636; July 4.
- "Arle's Victory Polish." (For a Polish Which can be Used on Automobiles, Furniture, and Other Articles.) J. Arle. No. 24,613; July 4.
- "Asp-Rin-Lax." (For Cold Tablets.) Omez Pharmacal Co. No. 24,667; July 4.
- "Beistle's—Christmas Decorations for the Home." (For a Package of Christmas Decorations.) Beistle Company. No. 24,625; July 4.
- "Beistle's Hallowe'en Hat Masks." (For a Package of Hat Masks.) Beistle Company. No. 24,624; July 4.
- "Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) Beistle Company. No. 24,621; July 4.
- "Beistle's Hallowe'en Hats." (For Packages Containing Hallowe'en Hats.) Beistle Company. No. 24,623; July 4.
- "Bonnie." (For a Wrapper for Toilet Paper Rolls.) Northern Paper Mills. No. 24,663; July 4.
- "Brilliantine." (For Hair Preparations.) Harriet Hubbard Ayer. No. 24,618; July 4.
- "Brownie Krust." (For Bread.) H. J. Regus. No. 24,675; July 4.
- "Certified." (For Olives.) California Olive Association. No. 24,628; July 4.
- "Choice Box." (For Packages of Confectionery.) Robert A. Johnston Company. No. 24,651; July 4.
- "Chocolate Pie." (For Candy.) Schall's Inc. No. 24,681; July 4.
- "Cocoanut Showers 'Honey-Like'." (For Candy and Confections.) Frozen Fruit, Inc. No. 24,643; July 4.
- "Coeur de Violette." (For Toilet Soap.) Harriet Hubbard Ayer. No. 24,614; July 4.
- "Coeur de Violette." (For Toilet Soap.) Harriet Hubbard Ayer. No. 24,617; July 4.
- "Complexion Balm." (For a Lotion for Beautifying the Skin.) Harriet Hubbard Ayer. No. 24,619; July 4.
- "Cyclone Cleaner." (For a Cleaning Compound.) Thomas A. Theard. No. 24,690; July 4.
- "Delico Dips." (For Chocolate-Coated Frozen Confections.) Delico Products Company. No. 24,635; July 4.
- "Depilatory." (For Preparation for Removing Hair.) Harriet Hubbard Ayer. Nos. 24,615-6; July 4.
- "Dr. Schwind's Rose Healing Salve." (For Salve.) Schwind Laboratory. No. 24,682; July 4.
- "Drytex." (For a Wrapper for Folded Paper Towels.) Northern Paper Mills. No. 24,665; July 4.
- "El Fani." (For Boxes Containing Cigars.) Sclafani & Sons. No. 24,683; July 4.
- "Fenway." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,637; July 4.
- "Fire-Chief The Infallible Fire Extinguisher." (For a Jar of Fire-Extinguisher Liquid.) Benson Products Co. No. 24,626; July 4.
- "Firefly." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,641; July 4.
- "Golden Glow Butter." (For Butter.) Riddle-McElwain Co. No. 24,676; July 4.
- "Green Leaf." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,661; July 4.
- "Hallowe'en Party Table Decorations." (For Packages Containing Table Decorations for a Hallowe'en Party.) Beistle Company. No. 24,622; July 4.
- "Ha-Lo Antiseptic Cylinders Antiseptic, Healing, Deodorant, Prophylactic." (For Medicinal Preparations for Female Diseases.) L. C. Rohlfing. No. 24,677; July 4.
- "Happy Days." (For a Beverage.) Crown Brewing Co. No. 24,634; July 4.
- "Honey-Like 'Cocoanut Showers'." (For Candy and Confections.) Frozen Fruit, Inc. No. 24,642; July 4.
- "Husky Graham Bread." (For Bread.) M. Zinsmaster. No. 24,693; July 4.
- "Indian Corn Candy." (For Butter Cream Confections—Namely, Indian Corn Candy.) The Nuss Confectionery Company. No. 24,666; July 4.
- "Jane Drew." (For Candies.) L. R. Steel Company. No. 24,687; July 4.
- "Kismet Hair Net." (For Hair Nets.) S. Glenby's Sons Co. No. 24,645; July 4.
- "Lady Esther Four Purpose Cream." (For Face Cream.) S. Cohen. No. 24,630; July 4.
- "Lady Jane." (For Hair Nets.) M. Wahl & Son. No. 24,692; July 4.
- "Lasting Lustró The Perfect Polish." (For Autos, Furniture, Leather, Pianos, Victrolas, Etc., as a Cleaning and Polishing Compound.) H. R. F. Co. No. 24,649; July 4.
- "Lion Brand." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,640; July 4.
- "Mile-A-Minute." (For Carbon Remover and Preventer.) Mile-A-Minute, Incorporated. No. 24,652; July 4.
- "M. M. R.'s Red Seal Hair Net." (For Hair Nets.) Morris, Mann & Reilly, Inc. No. 24,653; July 4.
- "Monument Writing Fluid." (For Inks Known as Writing and Copying Fluid.) A. A. Broshears. No. 24,627; July 4.
- "Northern Bear." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,662; July 4.
- "Northern Cabinet Tissue." (For a Wrapper for Packages of Toilet Paper.) Northern Paper Mills. No. 24,660; July 4.

- "O. K. Eto Crisps." (For Health Wafers.) Jern Food Company. No. 24,650; July 4.
- "Parasilk." (For Toilet Paper.) Paper Specialty Company. No. 24,670; July 4.
- "Peggy." (For Envelopes Containing Hair Nets.) E. Frankel Company. No. 24,639; July 4.
- "Pen Jel." (For a Powdered Substance Consisting of Pectin and Acidified Sugar, a Quick Jelly Making Material.) Pennsylvania Sugar Company. No. 24,671; July 4.
- "Play Ball." (For Games.) I. Prince. No. 24,672; July 4.
- "Princess Charming." (For Perfume, Toilet Water, Face Powder, and Talcum Powder.) Harriet Hubbard Aver. No. 24,620; July 4.
- "P S G Co. Stove Gloss." (For a Stove Gloss Preparation.) J. L. Nekritz. No. 24,655; July 4.
- "Puncher De Luxe." (For Boxes Containing Cigars.) S. Goldberg & Company. No. 24,647; July 4.
- "Purple Feather." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,664; July 4.
- "Realgood." (For Hosiery.) Realgood Corporation. Nos. 24,673-4; July 4.
- "Red Poppy." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,658; July 4.
- "Sano." (For a Rheumatic Remedy and System Tonic.) Sano Remedy Company. No. 24,678; July 4.
- "Satisfaction." (For Eggs.) Green & Company. No. 24,648; July 4.
- "Savem." (For a Container for a Compound Used for the Treatment of Fabrics After the Same Have Been Washed.) Savem Economy Products Co. Nos. 24,679-80; July 4.
- "Selby's Fleur Kiss Chewing Gum." (For Packages Containing Chewing Gum.) National Pepsin Gum Co. No. 24,654; July 4.
- "Select." (For Canned Vegetables—Namely, Tomatoes.) Anderson & Nelson. No. 24,612; July 4.
- "Stacomb." (For Hair Pomade.) Standard Laboratories, Inc. No. 24,686; July 4.
- "Styla." (For Boxes Containing Hosiery.) F. Simmons. No. 24,684; July 4.
- "Swannette Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,646; July 4.
- "Sweerie." (For Oranges.) L. K. Small Company. No. 24,685; July 4.
- "Sweet's Lady Claire Chocolates." (For Chocolates.) Sweet Candy Company. No. 24,688; July 4.
- "The Chertok-Bodak Hair Saver." (For a 4-Oz. Bottle of Vegetable and Root Compound (Liquid) for the Treatment of Hair and Scalp.) Oscar Hair Restoring Company. No. 24,669; July 4.
- "The Childrens Shoe Workers' Union of New York State." (For Children's Shoes.) Childrens Shoe Workers' Union of New York State. No. 24,631; July 4.
- "The Country Gentleman Handkerchief." (For Boxes Containing Handkerchiefs.) Thomas Carter & Sons, Inc. No. 24,629; July 4.
- "The Iris Hair Net." (For Hair Nets.) S. Glemby's Sons Co. No. 24,644; July 4.
- "Thorobread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 24,656; July 4.
- "Virden's Thrift." (For Cooked Corn Beef.) Virden's Packing Company. No. 24,691; July 4.
- "Virginia Mountain Peaches, Mad Run Brand." (For Packages Containing Peaches.) J. A. O'Neill. No. 24,668; July 4.
- "Vit-A-Mine Line Foods." (For Vit-A-Mine Line Foods.) T. J. Newbill. No. 24,657; July 4.
- "Wafer-Lax." (For a Carton Which Contains a Bottle with an Average of Thirty-Two Wafers Contained Therein.) William H. Sweet Company. No. 24,689; July 4.
- "Walnettos." (For Candy—Namely, Caramels.) J. N. Collins Company. Nos. 24,632-3; July 4.
- "Yankee Girl." (For Envelopes Containing Hair Nets.) B. Frankel Company. No. 24,638; July 4.
- "Yellow Bird." (For a Wrapper for Toilet-Paper Rolls.) Northern Paper Mills. No. 24,659; July 4.

ALPHABETICAL LIST OF PRINTS.

- "Alteration Piano Sale." (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,197; July 4.
- "Beauty Brows." (For Advertising Purposes for Eyeglasses and Spectacles.) Frank G. Murphy. No. 6,202; July 4.
- "Eldorado Brand Typewriter Ribbons, Non-Filling and Durable." (For Advertising Purposes for Eldorado Typewriter Ribbons.) National Paper & Type Co., The. No. 6,203; July 4.
- "Factory Pianos." (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,196; July 4.
- "Jiffe." (For Advertising Purposes for Nail Polish.) G. D. Earl. No. 6,198; July 4.
- "Jiffy Folding Card Table De Luxe." (For Advertising Purposes for Folding Card Tables.) Steinfeld Bros. No. 6,206; July 4.
- "Macks Mum." (For Advertising Purposes for Shirts.) Raub & Mack Shirt Co. No. 6,204; July 4.
- "Makes All Figuring Easy as Turning the Crank." (For Advertising Purposes for Monroe Calculating Machines.) Monroe Calculating Machine Co. No. 6,201; July 4.
- "Piano Sale." (For Advertising Purposes for Pianos.) Union Piano Co. Nos. 6,207-8; July 4.
- "Pianos! Pianos!" (For Advertising Purposes for Pianos.) Boston Piano Co. No. 6,195; July 4.
- "Polar Patties." (For Advertising Purposes for a Confection Comprising Ice Cream as a Principal Ingredient.) William W. Saxe. No. 6,205; July 4.
- "The Estey Residence Pipe Organ." (For Advertising Purposes for The Estey Residence Pipe Organ.) Estey Organ Co. No. 6,199; July 4.
- "The New Improved Seven Passenger Haynes 75 Touring Car." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 6,200; July 4.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Agricultural implements, cutlery and edge tools, and machinists' tools. Collins Company. No. 156,778; July 4.
- Air lifts and liquid separators. Sullivan Machinery Company. No. 145,861; July 4.
- Ammonia, castor oil, cough balsam, etc. Puritan Drug Mfg. Co. No. 146,655; July 4.
- Automobile body hardware. Ternstedt Manufacturing Co. No. 156,471; July 4.
- Automotive parts. The Parts Service Company. No. 160,972; July 4.
- Bearings, shafts, arbors, and bearing parts, Antifriction. A. E. Leon. No. 149,408; July 4.
- Beer and near beer. United States Brewing Company. No. 147,380; July 4.
- Belting, Leather. Chas. A. Schieren Company. No. 161,276; July 4.
- Belting, Textile. Buckner Process Company. No. 159,993; July 4.
- Belts for men, women, and children. Hauser & Weil. No. 159,034; July 4.
- Benches. M. C. Bacheller. No. 149,168; July 4.
- Blank books, loose-leaf-ledger binders, stenographers' note books, etc. Guild Products Corporation. No. 159,732; July 4.
- Boiler covering. Rutland Fire Clay Co. No. 154,996; July 4.
- Books published in series. Printed. E. P. Dutton & Co. Nos. 163,141-2; July 4.
- Boots, shoes, and slippers. Plaut-Butler Company. No. 156,800; July 4.
- Boxes and vases made of aluminium. Aluminium Walzwerke A.-G. No. 138,800; July 4.
- Brilliantine. E. Burnham, Inc. No. 160,471; July 4.
- Brooders and hovers. C. H. Landenberger. No. 162,828; July 4.
- Brushes. Wooster Brush Company. Nos. 160,448-9; July 4.
- Brushes, Artists'. M. Grambacher. No. 161,085; July 4.
- Brushes, Hair, clothes, and shoe. Diack Bros. No. 160,001; July 4.
- Brushes, Shaving. Wontshed Brush Co. No. 161,218; July 4.
- Buttons, buckles, girdles, beads, spangles, etc. United Manufacturing Trimming Co. No. 161,158; July 4.
- Buttons, Horn. Lindenhurst Manufacturing Co. No. 159,097; July 4.
- Camera, Cinema. Sept Cinema Camera Distributors, Inc. No. 161,901; July 4.
- Can opener. R. F. Stevenson. No. 158,543; July 4.
- Candies. Loft, Incorporated. No. 158,878; July 4.
- Candies. Wallace & Co. No. 158,407; July 4.
- Candy. Package Confectionery Company. No. 149,598; July 4.
- Canned fruits and vegetables. F. B. Neuhoff. No. 157,943; July 4.
- Canned fruits and vegetables. F. B. Neuhoff. Nos. 157,945-6; July 4.
- Canned fruits and vegetables, nuts, honey, jelly, etc. Betty Jeanne Incorporated. No. 156,352; July 4.
- Canned vegetables and fruits. Filice & Perrelli Canning Co. No. 158,301; July 4.
- Canned white tuna fish. Westgate Sea Products Co. No. 157,973; July 4.
- Car bodies, parts, and accessories. Motor. Carrosserie Van Den Plas, Société Anonyme. No. 158,704; July 4.
- Cars, Children's coaster. Woodstock Manufacturing Co. No. 161,468; July 4.
- Cars, Children's three-wheel propelling. E. S. Rogers. No. 159,769; July 4.
- Carbon blacks and paint pigments. Sander, Wieler & Co. No. 144,884; July 4.
- Cards, Playing. United States Playing Card Company. No. 164,526; July 4.
- Cartoons. Series of. Bell Syndicate, Inc. No. 163,214; July 4.
- Cartoons. Series of. George Matthew Adams Service. No. 131,719; July 4.
- Cases and bags for holding fishing material. Knickerbocker Case Company. No. 153,356; July 4.
- Cement such as is used in the manufacture and repairing of boots and shoes. United Shoe Machinery Corporation. No. 148,041; July 4.
- Chairs, rockers, tables, beds, dressers, desks, and fiber office furniture, Household. American Chair Company. No. 159,195; July 4.
- Chemicals. Porter Chemical Company. No. 143,103; July 4.
- Cigarette-rolling machines, Pocket. Evans Concinaum & Metal Works, Ltd. No. 139,790; July 4.
- Cleaning compound, Liquid. F. Valcour. No. 153,420; July 4.
- Cleanser for cleaning clothes, silverware, dishes, cooking utensils, woodwork, etc. Hays-Raden Company. No. 159,357; July 4.
- Clothing. Marcus Breier's Sons. No. 155,596; July 4.
- Combs. Stewart & Holmes Drug Co. No. 162,906; July 4.
- Combs, pincushions, glove stretchers, shoeorns, etc. James McCreery & Company. No. 158,245; July 4.
- Comforters. Burton-Dixie Corporation. No. 159,554; July 4.
- Compound for treating catarrh, asthma, and colds. C. G. Taylor. No. 159,389; July 4.
- Confections—namely, candy. Sykes & Thompson Co. No. 156,866; July 4.
- Cord fasteners, hooks, and pulleys, window springs, etc. Western Electric Company. No. 111,635; July 4.
- Cotton and wool piece goods, and combinations of same. Societe Rodier. No. 157,335; July 4.
- Cotton handkerchiefs. Gribbon Company. No. 162,335; July 4.
- Cotton piece goods. Eugene Ellis Co. Inc. No. 160,338; July 4.
- Cotton piece goods. Hockmeyer Bros. No. 162,254; July 4.
- Cotton piece goods. Passaic Print Works. No. 156,410; July 4.
- Cotton piece goods and drapery fabrics of cotton, silk, etc. Colony Mills Inc. No. 161,917; July 4.
- Cotton waste. Geo. B. Carpenter & Co. Nos. 161,226-32; July 4.
- Crash, towels, and toweling. West Point Manufacturing Company. No. 163,061; July 4.
- Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,798; July 4.
- Cream, Facial. E. Burnham, Inc. No. 160,478; July 4.
- Cream testers. J. A. Long Company. No. 162,347; July 4.
- Cream, Toilet. The Stimule Company, Inc. No. 160,511; July 4.
- Creams, face powders, rouges, etc. Palmers, Limited. No. 158,640; July 4.
- Crushers and like machines. Williams Patent Crusher & Pulverizer Co. No. 158,279; July 4.
- Crushers and like machines. Williams Patent Crusher & Pulverizer Co. No. 158,462; July 4.
- Curtain holders. M. J. Smith. No. 161,204; July 4.
- Cutlery. J. A. Henckels. No. 153,980; July 4.
- Dentifrice. G. F. Bowman and C. F. C. Arensberg. No. 159,840; July 4.
- Deodorant. E. Burnham, Inc. No. 160,461; July 4.
- Dispensers, measuring pumps, and meters. S. F. Bowser & Company. No. 161,165; July 4.
- Dolls. J. A. Hayes. No. 161,049; July 4.
- Dolls. Wolf Doll Co. No. 162,864; July 4.
- Drill bits, reamers, oil-well fishing tools, etc., Rotary. Reed Roller Bit Co. No. 153,950; July 4.
- Drink, Malt soft. S. Liebmanns Sons. No. 160,499; July 4.
- Drinks and sirups for making same, Maltless soft. K. Antonsen. No. 160,528; July 4.
- Electric signal or alarm boxes, door openers, sewing machines, etc. Western Electric Company. No. 111,634; July 4.
- Electrotypes. Royal Electrotpe Company. No. 161,164; July 4.
- Fabrics. St. John Brothers. No. 162,697; July 4.
- Filters. C. S. Smith. No. 162,583; July 4.
- Fire-extinguishing composition. J. B. Miller. No. 158,884; July 4.
- Fishing spoons. Geneva Tackle Co. No. 163,150; July 4.
- Floor covering, Plastic. Duraflex Company. No. 158,522; July 4.
- Flour, Wheat. Hoyland Flour Mills Company. Nos. 160,346-7; July 4.
- Flour, Wheat. Hoyland Flour Mills Company. No. 160,349; July 4.
- Flour, Wheat. Lindsborg Milling & Elevator Co. No. 147,727; July 4.
- Flour, Wheat. Southwestern Milling Company. No. 155,326; July 4.
- Fruits, Fresh deciduous. White Bros. & Crum Co. No. 158,349; July 4.
- Furs, Prepared. H. Silbert. No. 152,727; July 4.
- Gauges, Fluid. Mid West Glass Company. No. 161,734; July 4.
- Glass paperweights. Buffalo Optical Company. No. 162,282; July 4.
- Goggles and protection glasses. Willson Goggles, Inc. No. 160,734; July 4.
- Hair nets. R. Denels. No. 162,535; July 4.
- Hair pins. Sta-Rite Hair Pin Co. No. 160,303; July 4.
- Hair removed. E. Burnham, Inc. No. 160,463; July 4.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Hair wash, shampoo powders, perfumery powders, etc. Hammes Limited. No. 158,313; July 4.
- Hair tonic relieving excessive oil. E. Burnham, Inc. No. 160,464; July 4.
- Hair wavers, curlers, and crimpers. L. M. Garrity & Co. No. 162,402; July 4.
- Hats for men. Bonar-Phelps Company. No. 150,957; July 4.
- Healing compound for sores and wounds. Gadososki Bros. No. 153,243; July 4.
- Hooks and eyes, hook and eye tape, and safety pins. De Long Hook and Eye Company. No. 162,164; July 4.
- Horses on wheels for children. A. A. Magee. No. 146,321; July 4.
- Hose, Golf. J. A. Panarello. No. 155,572; July 4.
- Hose made of cotton and rubber and hose made of linen. United States Rubber Company. No. 161,287; July 4.
- Hosiery. C. T. Davies. No. 159,014; July 4.
- Hosiery. L. H. Lewis Company. No. 155,412; July 4.
- Hosiery. Pittsburgh Dry Goods Company. No. 145,708; July 4.
- Hosiery, Infants'. Krueger-Tobin Co. No. 158,395; July 4.
- Hosiery, underwear, and sweaters. R. Lipschitz & Sons. No. 154,226; July 4.
- Household appliances. National Home Appliance Corporation. No. 149,093; July 4.
- Insulating powder used in building construction, etc. R. Burhans, Jr. No. 147,229; July 4.
- Kitchen utensils, and flatware, Aluminum. Rainbow Import & Export Corporation. No. 157,043; July 4.
- Laces, Shoe. Diamond Braiding Mills. No. 161,114; July 4.
- Lacti bacilli for medicinal use in gastro-intestinal disorders, etc., Culture of. B. B. Culture Laboratory, Inc. No. 160,584; July 4.
- Lanterns, Glass globes for. R. E. Dietz Company. No. 161,768; July 4.
- Laundry purposes and in treating textiles. Hot and cold sour for. H. Kohnstamm & Co. No. 160,709; July 4.
- Letter folders, Advertising. Advertiser's Art Studios. No. 163,072; July 4.
- Lotion, Skin. Natural Life Face Beautifier. No. 160,624; July 4.
- Lumber. E. Jones. No. 162,491; July 4.
- Mattresses, cushions, beds, etc. Burton-Dixie Corporation. No. 154,634; July 4.
- Measuring weight or pull. Machine for. Little Giant Company. No. 160,714; July 4.
- Meats, meat products, and other foods. Morris & Company. Nos. 154,036-7; July 4.
- Medicine for menorrhagia, metrorrhagia, backache, and menstrual fever. A. Khoury. No. 159,511; July 4.
- Medicine, Headache. Stimule Company, Inc. No. 160,512; July 4.
- Medicine, Laxative. Stimule Company. No. 160,513; July 4.
- Milk, Unsweetened evaporated. Crescent Company. No. 157,914; July 4.
- Moldings or casings or as a filling material, Powder used in the manufacture of. American Cellulose & Chemical Manufacturing Company. No. 161,221; July 4.
- Motors and carburetors. Camden Anchor-Rockland Machine Co. No. 143,743; July 4.
- Mottos, Snapping. B. Shackman & Co. Nos. 164,125-7; July 4.
- Muslin, cambric, etc., in the piece. Marshall Field & Company. No. 140,311; July 4.
- Neckties. T. E. Greaney. No. 154,311; July 4.
- Nozzles, Hose. Schlangen Bros. Co. No. 157,636; July 4.
- Oil gauges. Carter Motor Accessories, Inc. No. 161,819; July 4.
- Oils, Lubricating. Star Oil Company. No. 152,217; July 4.
- Paint, Oil. William Zinsser & Company. No. 158,166; July 4.
- Pans and broom holders, Frying. Miller Lock Company. No. 156,500; July 4.
- Pants, Baby. I. B. Kleinert Rubber Company. Nos. 158,680-1; July 4.
- Paper an ledger, Writing. Fox River Paper Company. No. 161,002; July 4.
- Paper mainly used for carbonizing purposes, Tissue. Rose & Frank Co. Nos. 162,576-8; July 4.
- Paper towels. West Disinfecting Company. No. 162,705; July 4.
- Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 163,092; July 4.
- Papers, Writing and printing. American Writing Paper Company. Nos. 157,293-4; July 4.
- Pavements and paving material containing bituminous matter. Warren Brothers Company. No. 158,498; July 4.
- Pencils. W. H. Ingersoll. No. 161,780; July 4.
- Pens, stycographic pens, and pencils, Fountain. Eggen-Hambler Company. No. 162,672; July 4.
- Perfume, toilet water, sachets, and other toilet preparations. E. Burnham, Inc. No. 160,472; July 4.
- Perfumes. A. S. Wildes. No. 160,523; July 4.
- Perfumes, toilet waters, face and toilet powders, sachets, etc. Cheramy, Inc. No. 159,499; July 4.
- Periodical devoted to games. Section of a daily, weekly, or monthly. Associated Editors. No. 158,410; July 4.
- Periodical published monthly. Purchasing agents, Association of Western Massachusetts. No. 163,536; July 4.
- Photographic prints. A. E. Jacobson. No. 152,849; July 4.
- Pictures and cartoons. W. R. Allman. No. 161,952; July 4.
- Piece goods manufactured from cotton or other fiber. Denzer & Nathan, Inc. No. 162,102; July 4.
- Pile fabric in the piece. Sidney Blumenthal & Co. No. 162,477; July 4.
- Pile fabric in the piece. Sidney Blumenthal & Co. No. 162,480; July 4.
- Pile fabric in the piece. Sidney Blumenthal & Co. No. 162,981; July 4.
- Pile fabrics in the piece. Sidney Blumenthal & Co. No. 163,079; July 4.
- Pile fabrics made wholly or in part of hair or wool. Sanford Mills. No. 162,138; July 4.
- Pillow tubing, Cotton. Osborn Mills. No. 163,105; July 4.
- Pins, Safety. New York Merchandise Company. Nos. 160,558-9; July 4.
- Pins, Safety. F. Rees. Nos. 161,147-8; July 4.
- Pipes, Smoking. Manhattan Briar Pipe Company. No. 153,733; July 4.
- Pipes, Smoking. Manhattan Briar Pipe Company. No. 153,743; July 4.
- Piston rings. F. F. Fulton. No. 160,882; July 4.
- Piston rings. Shipley-Allen Inc. No. 162,855; July 4.
- Plasters, Calcined gypsum wall. United States Gypsum Company. No. 163,204; July 4.
- Powder, Face. E. Burnham, Inc. No. 160,470; July 4.
- Powder, Liquid face. E. Burnham, Inc. No. 160,465; July 4.
- Powder, Talcum. E. Burnham, Inc. No. 160,460; July 4.
- Powder, Toilet. Stimule Company. No. 160,509; July 4.
- Powders, petroleum jelly, almond, cold, vanishing, and massage creams. Ho-Ro-Co Manufacturing Company. No. 159,314; July 4.
- Preparation for chapped hands. E. Burnham, Inc. No. 160,469; July 4.
- Preparation for crow's-feet. E. Burnham, Inc. No. 160,467; July 4.
- Preparation for energizing gasoline, Liquid. 1 In 5 Manufacturing Co. No. 157,169; July 4.
- Preparation to promote the growth of hair and for the treatment of dandruff, etc. Velvotone Chemical Co. No. 154,942; July 4.
- Preparation used in oil scalp treatments, Hot. E. Burnham, Inc. No. 160,476; July 4.
- Publication, Monthly. Poster Advertising Association. No. 163,352; July 4.
- Publications, Monthly. Binder Brothers, Inc. No. 164,096; July 4.
- Pulleys or blocks. Boston & Lockport Block Company. Nos. 152,459-60; July 4.
- Pulleys, Stamped steel. Dodge Sales & Engineering Co. No. 123,631; July 4.
- Pyjamas. Lord & Taylor. No. 155,506; July 4.
- Pyjamas. Lord & Taylor. No. 155,508; July 4.
- Radiators for motor vehicles. C. H. Shapiro. No. 162,463; July 4.
- Razors, Safety. Gillette Safety Razor Company. No. 147,192; July 4.
- Reel mills. Atwood Machine Company. No. 158,558; July 4.
- Registers, Hand-operated counting. C. A. Goodspeed. No. 159,237; July 4.
- Rockers, Children's. Woodstock Manufacturing Co. No. 161,469; July 4.
- Rope, Sisal and manila. Hooven & Allison Company. No. 146,549; July 4.
- Salts, pastils, and medicated cream, Drinking and bath. Aachener Thermalwasser "Kaiserbrunnen," Aktiengesellschaft. No. 155,467; July 4.
- Salve or ointment. E. Fimmel. No. 156,271; July 4.
- Saucepans, pots, kettles, pitchers, coffee-pots, teapots, etc., Aluminum tipped. Superior Manufacturing Company. No. 161,205; July 4.
- Service tools, Automobile. Miller Tool & Mfg. Co. No. 156,231; July 4.
- Shampoo. E. Burnham, Inc. No. 160,468; July 4.
- Shampoo and hair wash. S. Markman. No. 160,292; July 4.
- Shampoo cream. W. T. Krusch. No. 160,066; July 4.
- Shock pneumatic tools and hand tools. A. O. J. Tool Company. No. 156,945; July 4.
- Shoes. Maryland Shoe Corporation. Nos. 152,897-8; July 4.
- Shoes, Leather, felt, and combination of leather and rubber. Lane Brothers Company. No. 155,210; July 4.
- Silk piece goods. Cardinal Silk Company. No. 161,873; July 4.
- Sirup for food purposes, Malt. Premier Malt Products Co. of Ohio. Nos. 158,329-31; July 4.
- Sirup, Pure Georgia cane. Roddenbery Bros. No. 158,334; July 4.
- Sleds, Hand. Sheffield Mfg. Co. No. 164,614; July 4.
- Snap fasteners. American Fastener Company. No. 160,107; July 4.
- Snap fasteners. Walde & Co. No. 159,394; July 4.
- Soap powders. Kendall Products Corporation. No. 158,985; July 4.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

xxxix

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Soap products. Kendall Products Corporation. No. 158,986; July 4.
- Soaps. John Wanamaker, Philadelphia. No. 156,727; July 4.
- Soaps, Toilet. Crofts & Reed Co. No. 160,114; July 4.
- Soups, Toilet. Lamson Brothers Co. No. 158,190; July 4.
- Soda fountains, carbonators, and soda-fountain machinery. Langley & Michaels Co. No. 158,322; July 4.
- Steam blowers. McClave-Brooks Co. No. 157,720; July 4.
- Stepladder. E. T. Burrowes Company. No. 161,526; July 4.
- Stockings. Van Raalte Company. No. 147,266; July 4.
- Stoves, Coal, coke, wood, and gas. F. A. Klaine Company. No. 157,838; July 4.
- Stoves, ranges, furnaces. Minnesota Stove Company. No. 166,453; July 4.
- Straps, Metallic. I. R. Pierson. No. 155,631; July 4.
- Strawboard, box board, binders' board, etc. C. L. Laboiteaux Company. No. 143,544; July 4.
- Stucco. Atlas Portland Cement Company. Nos. 163,073-4; July 4.
- Stucco. Atlas Portland Cement Company. No. 163,076; July 4.
- Suits and overalls, Play. Devon Manufacturing Company. No. 158,606; July 4.
- Tablecloths and napkins. Hale Bros., Inc. No. 158,712; July 4.
- Tablets, composition books, student notebooks, etc., Writing. Osborn Paper Company. No. 162,947; July 4.
- Tents of canvas or other fabric, Shelter. F. O. Berg. No. 159,785; July 4.
- Tobacco, Cut and plug. Tuckett Tobacco Company. No. 144,358; July 4.
- Toilet preparations. T. Noonan & Sons Company. No. 145,119; July 4.
- Tomato catchup, cherries, oysters, salmon, etc. Wilson & Co. No. 129,819; July 4.
- Tonic containing vitamins of yeast, Food. Yeast Tablet Co. No. 158,511; July 4.
- Tonic, General. Stimule Company, Inc. No. 160,510; July 4.
- Tonic wine used for anaemia, convalescence, etc. J. Cournord. No. 159,790; July 4.
- Tools. Skeleton Tool Co. No. 144,546; July 4.
- Toy telephones. Kelley & Corwin. No. 163,448; July 4.
- Typewriting machines, and parts thereof. Robert Fabig Gesellschaft mit beschränkter Haftung, Maschinen, u. Apparate-Fabrik. No. 153,594; July 4.
- Valves and cocks, gas appliances, Brass. Detroit Brass & Malleable Works. No. 153,649; July 4.
- Valves, Metallic. Eckenroth Valve and Manufacturing Co. No. 161,120; July 4.
- Valves, Oil. Ackswell Mfg. & Sales Co. No. 145,601; July 4.
- Vanity case and corsage shield, Combined. S. B. Wertheimer. No. 161,289; July 4.
- Vegetables, Fresh. Carlsbad Vegetable Growers Association. No. 158,292; July 4.
- Vehicles, Trailers for motor. D. A. Newcomer Company. No. 162,484; July 4.
- Vending machines. International Vending Machines Ltd. No. 157,317; July 4.
- Wagons, Coaster. Sheffield Mfg. Co. Nos. 164,611-13; July 4.
- Wagons, Coaster. Sheffield Mfg. Co. No. 164,615; July 4.
- Washing powder. A. E. Kihn. No. 160,414; July 4.
- Washing powder. H. B. Rhymer. No. 149,102; July 4.
- Watch parts. Sussfeld, Lorsch & Schimmel. No. 154,100; July 4.
- Webbing and shirred elastic ribbon, Elastic. A. Stein & Company. No. 148,623; July 4.
- Webbing, Jute. Ludlow Manufacturing Associates. No. 162,182; July 4.
- Winding frames. Atwood Machine Company. No. 158,556; July 4.
- Wool and silk piece goods and combinations of same. Societe Rodier. No. 157,334; July 4.
- Woolen piece goods. Societe Rodier. No. 157,587; July 4.
- Woolen piece goods. J. P. Stevens & Co. Nos. 163,119-20; July 4.
- Woolen piece goods. Worumbo Manufacturing Company. No. 159,192; July 4.
- Woolen, merino, and cashmere piece goods. Societe Rodier. No. 157,333; July 4.
- Yarns and sewing threads, Embroidery. R. Reynolds. No. 159,886; July 4.

CLASSIFICATION OF PATENTS

ISSUED JULY 4, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 47: 1,421,655	33— 174: 1,421,895	67— 53: 1,422,059	89— 43: 1,421,576	119— 77: 1,421,636	164— 88: 1,421,417
2— 106: 1,421,602	182: 1,421,504	121: 1,422,033	91— 44: 1,421,662	120— 17: 1,421,742	166— 19: 1,421,363
142: 1,421,849	6: 1,422,039	9: R. 15,395	48: 1,421,654	103: 1,421,335	24: 1,421,706
144: 1,421,446	12: 1,421,856	34: 1,422,031	49: 1,421,811	109.5: 1,421,455	167— 8: 1,421,893
154: 1,421,704	19: 1,421,429	55: 1,421,462	54.5: 1,421,952	121— 11: 1,421,721	169— 13: 1,421,433
4— 5: 1,421,581	10: 1,421,975	27: 1,421,726	68: 1,421,888	122— 6.5: 1,421,396	24: 1,421,496
17: 1,421,362	16: 1,422,053	54: 1,421,522	92— 36: 1,421,364	392: 1,421,673	170— 159: 1,421,460
5— 3: 1,421,906	22: 1,421,619	128: 1,421,493	44: 1,421,752	451: 1,421,902	161: 1,421,699
8— 2: 1,421,613	47: 1,421,474	129: 1,421,870	1,421,754	479: 1,421,712	168: 1,421,477
19: 1,422,012	5: 1,421,559	8: 1,421,880	1,421,981	32: 1,421,594	32: 1,421,734
10— 126: 1,421,713	27: 1,421,383	6: 1,421,763	45: 1,421,753	90: 1,421,783	97: 1,421,549
12— 4: 1,421,394	30: 1,422,003	13: 1,421,685	71: 1,421,912	1,421,784	123: 1,421,538
66: 1,421,947	65: 1,421,671	14: 1,421,454	6: 1,421,835	119: 1,421,567	209: 1,421,584
83.5: 1,421,488	45: 1,421,422	16: 1,421,454	55: 1,421,673	180: 1,421,627	172— 126: 1,421,634
132: 1,421,980	87: 1,421,794	163: 1,421,986	58: 1,421,817	187.5: 1,421,793	179: 1,421,828
15— 18: 1,421,957	6: 1,421,674	122: 1,421,807	61: 1,421,816	197: 1,421,878	1,421,894
1,421,958	60: 1,421,961	5: 1,421,672	10: 1,421,901	20: 1,421,425	25: 1,421,931
36: 1,421,597	109: 1,421,379	28: 1,421,499	23: R. 15,401	24: 1,421,890	173— 336: 1,421,853
39: 1,421,911	125: 1,421,548	30: 1,421,905	30: 1,421,827	29: 1,421,393	174— 88: 1,421,516
74: 1,421,543	1,421,603	31: 1,421,739	34: 1,421,669	38: 1,421,456	175— 183: 1,421,495
111: 1,421,478	128: 1,421,367	51: 1,421,524	50: 1,421,665	52: 1,421,591	1,421,720
160: 1,421,529	154: 1,421,448	1,421,562	42: 1,421,735	90: 1,421,639	361: 1,421,899
163: 1,422,001	42: 1,421,991	1,421,903	57: 1,421,736	173: 1,421,598	364: 1,421,998
210: 1,421,875	82: 1,422,049	1,421,413	75: 1,421,413	318: 1,421,359	81: 1,421,717
215: 1,421,818	88: 1,421,610	1,421,711	77: 1,421,859	341: 1,421,831	177— 58: 1,421,864
16— 21: 1,421,626	44— 9: 1,421,879	82: 1,421,615	100: 1,422,029	350: 1,421,502	179— 175: 1,421,702
42: 1,421,647	45— 11: 1,421,779	100: 1,421,501	100: 1,422,029	8: 1,421,677	180— 9: 1,421,387
66: 1,421,666	13: 1,422,052	111: 1,421,774	97— 25: 1,421,868	16: 1,421,515	55: 1,421,545
112: 1,421,848	48: 1,421,541	122: 1,421,405	37: 1,421,872	20: 1,421,574	73: 1,421,836
128: 1,422,048	52: 1,421,564	74— 5: 1,421,408	45: 1,422,051	27: 1,422,023	82: 1,421,521
137: 1,421,746	92: 1,421,357	14: 1,421,571	99— 11: 1,421,737	30: 1,421,772	1,421,635
20: 1,421,458	94: 1,421,563	26: 1,421,641	100— 19: 1,422,014	31: 1,421,883	13— 15: 1,421,432
33: 1,421,397	116: 1,421,929	32: 1,421,915	101— 18: 1,421,511	5: 1,421,459	26: 1,421,484
18— 2: 1,421,450	4: 1,421,407	33: 1,421,434	35: 1,421,539	27: 1,422,023	184— 9: 1,421,440
4: 1,422,065	12: 1,421,361	1,421,462	85: 1,421,525	34: 1,421,728	1,421,826
10: 1,421,795	22: 1,421,468	1,421,624	122: 1,421,884	39: 1,421,625	11: 1,421,725
56: 1,421,748	27: 1,421,683	1,421,860	216: 1,421,982	45: 1,421,924	27: 1,421,470
19— 90: 1,421,663	1,421,907	35: 1,421,375	274: 1,421,920	52: 1,421,970	48: 1,421,487
130: 1,421,965	1,421,960	36: 1,421,580	365: 1,422,017	104: 1,421,582	55: 1,421,858
163: 1,421,659	38: 1,421,985	1,422,000	378: 1,421,360	137— 104: 1,422,054	163: 1,421,593
1: 1,421,646	40: 1,421,694	42: 1,421,832	15: 1,421,882	139: 1,421,648	139: 1,421,995
3: 1,421,423	41: 1,421,656	50: 1,421,486	44: 1,421,766	36: 1,421,815	39: 1,421,932
16: 1,421,941	1: 1,422,042	1,421,800	80: 1,421,629	64: 1,421,897	45: 1,421,404
22: 1,421,431	51: 1,421,532	56: 1,421,761	84: 1,421,513	67: 1,422,016	82: 1,421,945
42: 1,421,547	61: 1,421,575	58: 1,421,799	92: 1,421,409	82: 1,421,498	4: 1,421,910
87: 1,421,791	64: 1,421,570	79: 1,421,644	23: 1,422,032	12: 1,421,664	91: 1,421,785
97: 1,421,988	64: 1,421,678	96: 1,421,951	246: 1,422,021	20: 1,421,395	100: 1,421,707
23— 1: 1,421,416	31: 1,422,030	99: 1,421,834	119: 1,421,534	60: 1,421,533	216: 1,421,697
1,421,688	128: 1,422,008	105: 1,421,424	246: 1,421,482	133: 1,421,520	223: 1,421,881
5: 1,421,436	180: 1,421,530	106: 1,422,063	250: 1,421,439	258: 1,421,829	259: 1,421,412
1,421,527	197: 1,422,007	109: 1,421,802	260: 1,421,378	286: 1,421,916	1: 1,421,950
13: 1,421,503	14: 1,421,810	119: 1,421,823	368: 1,421,747	303: 1,421,370	37: 1,421,618
1,421,804	17: 1,422,036	1: 1,421,471	373: 1,421,612	31: 1,421,599	44: 1,421,481
1,421,978	81: 1,421,974	1,421,686	377: 1,421,637	47: 1,421,380	5: 1,421,552
1,422,004	1: 1,422,031	1,422,019	24: 1,421,751	108: 1,422,015	37: 1,422,062
24— 24: 1,421,707	26: 1,422,035	77— 5: 1,422,031	1,421,914	146— 6: 1,421,505	43: 1,421,994
11: 1,421,657	101: 1,422,055	20: 1,421,928	1,421,954	14: 1,421,750	59: 1,421,639
17: 1,421,813	165: 1,421,544	78— 87: 1,421,786	1,421,976	1,421,837	68: 1,421,558
1,421,814	1: 1,421,480	79— 3: 1,421,715	1,421,976	5: 1,421,722	194— 41: 1,421,540
23: 1,421,388	53— 1: 1,421,705	80— 16: 1,421,667	1,421,976	1,421,723	97: 1,421,453
58: 1,421,577	55— 9: 1,421,371	81— 3: 1,421,871	1,421,976	150— 1.5: 1,421,955	102: 1,421,831
123: 1,421,675	64: 1,421,593	15: 1,421,465	16: 1,421,555	1: 1,421,755	5: 1,421,886
132: 1,421,385	60: 1,421,801	60: 1,421,792	51: 1,421,749	5: 1,421,537	27: 1,422,038
143: 1,421,999	63: 1,421,668	86: 1,421,366	54: 1,421,600	11.5: 1,421,490	126: 1,421,946
208: 1,421,476	124: R. 15,398	139: 1,421,536	1: 1,421,771	12: 1,421,420	143: 1,421,581
222: 1,421,514	91: 1,421,997	180: 1,421,936	7: 1,421,770	14: 1,421,452	160: 1,421,780
1,421,874	41: 1,421,632	12: 1,421,560	18: 1,421,741	1,421,922	19: 1,422,057
236: 1,421,956	16: 1,421,857	44: 1,421,896	28: 1,421,386	1,421,966	117: 1,421,787
131: 1,421,967	17: 1,421,913	49: 1,422,026	48: 1,421,898	28: 1,421,808	204: 1,422,002
7: 1,421,967	4: 1,421,485	60: 1,421,809	49: 1,421,778	37: 1,421,917	3: 1,421,493
28— 54: 1,421,497	8: 1,421,908	1,422,011	74: R. 15,399	64: 1,421,366	83: 1,421,940
29— 85: 1,421,987	10: 1,421,377	82: 1,421,984	118: 1,421,419	9: 1,421,418	103: 1,421,740
85: 1,421,738	17: 1,421,708	85: 1,421,585	200: 1,422,060	14: 1,421,616	131: 1,421,376
148 2: 1,421,623	22: 1,421,449	32: 1,421,862	201: 1,421,438	1,422,036	150: 1,421,923
188: 1,421,491	24: 1,421,681	424: 1,421,464	233: 1,421,873	75: R. 15,396	172: 1,421,855
85: 1,421,909	25: 1,421,518	3: 1,421,768	235: 1,421,797	21: 1,422,056	202— 1: 1,421,445
101: 1,421,773	28: 1,421,473	32: 1,421,638	24: 1,421,854	77: 1,421,969	14: 1,421,384
12: 1,421,776	1: 1,421,805	36.5: 1,421,866	52: 1,421,887	8: R. 15,402	207— 9: 1,421,820
32— 24: 1,421,827	31: 1,421,661	86— 21: 1,421,358	115— 18: 1,421,710		210— 3: 1,421,658
33— 27: 1,421,921	36: 1,421,918	87— 7: 1,421,620	116— 23: 1,421,972		
37: 1,421,426	40: 1,421,441	88— 24: 1,421,523	50: 1,421,727		
54: 1,421,553	59: 1,421,789	42: 1,421,729	110: 1,421,990		
130: 1,421,863	102: 1,421,617	43: 1,421,744	112: 1,421,953		
133: 1,421,943	61— 12: 1,421,861	89— 20: 1,422,037	118— 68: 1,421,466		

CLASSIFICATION OF PATENTS.

210—	91: 1,421,948	220—	58: 1,421,901	240—	2: 1,421,973	260—	115: 1,421,963	280—	22: 1,421,414	300—	9: 1,421,461	
158:	1,421,622		1,421,979	8: 5: 1,421,399	153:	1,421,417	69:	1,421,825	285—	58: R. 15,400		
211—	9: 1,421,806	221—	60: 1,421,777	1,421,528	218—	20: 1,422,028	266—	21: 1,421,989	290—	30: 1,422,027		
17:	1,421,679	116:	1,421,680	1,421,561	38:	1,421,398	38:	1,421,374	291—	25: 1,421,745		
18:	1,421,614	224—	1: 1,421,578	1,421,944	41:	1,421,595	267—	1: 1,421,781	292—	33: 1,422,020		
	1,421,709	5:	1,421,451	1,421,506		1,421,721	9:	1,421,819	247:	1,421,573		
16:	1,421,391	226—	84: 1,421,308	1,421,630	249—	58: 1,421,926	32:	1,421,900	262:	1,421,691		
34:	1,422,044	49:	1,421,372	1,421,775	59:	1,421,925	36:	1,421,759		1,421,798		
213—	17: 1,421,421	229—	4: 5: 1,421,649	45: 2: 1,421,838	250—	8: 1,422,013	45:	1,421,410	318:	1,421,714		
42:	1,421,556	30:	1,421,526	48: 4: 1,421,847	251—	18: 1,421,687	50:	1,421,551	293—	15: 1,421,650		
64:	1,421,821	38:	1,421,494	62: 1,421,368	92:	1,421,554	54:	1,421,758	45:	1,421,693		
	1,421,822	46:	1,422,018	1,422,025	95:	1,421,765	56:	1,421,760	55:	1,421,437		
215—	1: 1,421,696	45:	1,421,443	92: 1,421,382	253—	70: 1,421,892	268—	4: 1,421,938		1,421,608		
11:	1,421,877	82:	1,422,045	103: 1,421,405	194:	1,421,389	7:	1,421,592	294—	1: 1,421,689		
99:	1,421,885	230—	13: 1,421,840	106: 1,421,509	254—	67: 1,421,935	270—	20: 1,421,983	82:	1,421,993		
216—	5: 1,421,867		1,421,841	108: 1,421,415	84:	R. 15,397	271—	50: 1,421,569	295—	10: 1,421,653		
9:	1,421,730		1,421,842	241—	5: 1,421,690	111:	1,421,590	82:	1,421,889	296—	37: 1,421,732	
218—	15: 2: 1,421,483		1,421,843	242—	74: 1,421,933	137:	1,421,996	89:	1,421,868	44: 5:	1,421,927	
219—	23: 1,421,850		1,421,844	84: 1: 1,421,839	255—	76: 1,421,396	129:	1,421,512	1:	1,421,489	95:	1,421,942
25:	1,421,586		1,421,845	230: 5: 1,421,442	257—	130: 1,421,546	130:	1,421,546	1:	1,422,022	97:	1,421,467
	1,421,587	234—	12: 5: 1,421,500	244—	2: 1,421,369	3:	1,421,701	15:	1,421,489	15: 1,421,568	138:	1,421,400
	1,421,588		31: 1,421,390		1,421,846	53:	1,421,743	17:	1,421,472	17: 1,421,472	141:	1,421,716
	1,421,589	235—	60: 1,421,719	12:	1,421,621	106:	1,421,604	27:	1,421,572	277—	22: 1,421,469	
37:	1,421,959		43: 1,421,824	1,421,631	1,421,934	154:	1,421,869	77:	1,422,058	279—	14: 1,421,949	
38:	1,421,606	31:	1,422,024	15: 1,421,550	1,421,944	166:	1,421,733	14:	1,422,034	290—	2: 1,422,034	
41:	1,421,633	236—	33: 1,421,692	25: 1,421,803	1,421,550	170:	1,421,640	9:	1,422,041	33: 4:	1,421,492	
47:	1,421,937		34: 1,421,830	136: 1,421,880	1,421,631	261—	66: 1,421,790	33: 5:	1,421,402	77:	1,421,757	
20:	1,421,645	238—	94: 1,421,517	182: 1,421,762	1,421,934	262—	30: 1,421,557	106:	1,421,757	124:	1,421,788	
24:	1,421,411		135: 1,422,010	223: 1,421,769	1,421,944	263—	15: 1,421,852					
36:	1,422,064		331: 1,421,682	311: 1,421,512		264—	7: 1,421,660					
65:	1,421,628		332: 1,421,457	320:	1,421,444		19: 1,421,865					
67:	1,422,043		340: 1,421,962									
82:	1,421,964	240	2: 1,421,652									



ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Aarup, Hans C., Springfield, Ill. Air compressor. No. 1,422,070; July 11.
- Abegg, Walter A., Los Angeles, Calif. Socket wrench. No. 1,422,067; July 11.
- Adams, Carleton C. (See Grob, A. R., and Adams.)
- Adams, Charles F., Swampscott, Mass., assignor to Hamel Shoe Machinery Company, Bridgeport, Conn. Bed-laster end clasp. No. 1,422,806; July 11.
- Adams, James D., Wabash, Ind. Knockdown table. No. 1,422,246; July 11.
- Adamson, Allan A., Brooklyn, N. Y., and W. F. Grupe, Hudson Heights, N. J. Producing rim boards. No. 1,422,648; July 11.
- Al'learn, Frank M., Greenville, Pa. Frame support. No. 1,422,164; July 11.
- Aktiebolaget Ingenjorsfirma Fritz Egnell. (See Rodhe, Olof, assignor.) (Reissue.)
- Aktiebolaget Ljungstroms Angturbin. (See Ljungstrom, Fredrik, assignor.)
- Aladdin Renew Electric Lamp Corporation Limited. (See Coxon, S., and Williams, assignors.)
- Aiguire, Clifford G., Madison, S. Dak. Elevating rack for beds. No. 1,422,405; July 11.
- Allen, Frank M., Ridley Park, Pa., assignor to General Chemical Company, New York, N. Y. Gassing liquids with SO₂. No. 1,422,327; July 11.
- Allen, Paul W., Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd. Incorporated. Manufacture of grape sugar. No. 1,422,328; July 11.
- Allenbaugh, George G., Mansfield, Ohio. Swimming device. No. 1,422,071; July 11.
- Alquist, John C., Portland, Conn. Tool holder. No. 1,422,247; July 11.
- Aluminum Company of America. (See Frary, Francis C., assignor.) (Reissue.)
- Aluminum Seal Company. (See Sharp, John, assignor.)
- American Abrasive Metals Company. (See Napolitan, Francis J., assignor.)
- American Automatic Lock and Lift Company. (See Wheelock, Arthur C., assignor.)
- American Balsa Company. (See Broady, Harry W., assignor.)
- American Brake Company, The. (See Wahlert, H. A., and Redford, assignors.)
- American Investigation Corporation. (See Schuette, Johann, assignor.)
- American Lux Products Corporation. (See Troeger, John F. R., assignor.)
- American Pulley Company, The. (See Bilger, W. A., and Walker, assignors.)
- American Steel and Wire Company of New Jersey, The. (See Carstarphen, Frederick C., assignor.)
- American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
- American Smelting and Refining Company. (See Howard, William H., assignor.)
- Amundson, Peter A., assignor of one-half to T. A. Amundson, Oconomowoc, Wis. Variable-speed gear. No. 1,422,072; July 11.
- Amundson, Thomas A. (See Amundson, Peter A., assignor.)
- Anderson, Albin E., Oakmont, assignor of two-thirds to E. M. Verner and J. W. Macfarlane, Pittsburgh, Pa. Wire-rope machine. No. 1,422,073; July 11.
- Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
- Anderson, Gustaf A., Baltimore, Md., assignor to The T. H. Symington Company, New York, N. Y. Truck side frame. No. 1,422,074; July 11.
- Appias, Clarence S., Sacramento, Calif. Vehicle curtain fastener. No. 1,422,513; July 11.
- Aptowicz, Leon, Yonkers, N. Y. Ash receptacle. No. 1,422,165; July 11.
- A. P. W. Paper Co. (See Crandell, Willis S., assignor.)
- Arbuckle, Alexander J., Johannesburg, Transvaal, South Africa. Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground ore products. No. 1,422,514; July 11.
- Arndt, John P., Milwaukee, Wis. Disconnecting device. No. 1,422,248; July 11.
- Arndt, William F., Watertown, Wis. Pressure-signaling device for tires. No. 1,422,068; July 11.
- Aronson, Louis V., Newark, N. J. Sparking toy. No. 1,422,075; July 11.
- Asetine, Fred E., assignor to Cadillac Motor Car Company, Detroit, Mich. Carburetor. No. 1,422,329; July 11.
- Atkins, Charles H., Palmer, Mass. Steam trap. No. 1,422,069; July 11.
- Athons, Fred M., Los Angeles, Calif. Direction indicator for motor vehicles. No. 1,422,330; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,515; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,516; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,517; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,518; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,519; July 11.
- Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,520; July 11.
- Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
- Averitt, Robert W., Fort Worth, Tex. Water heater. No. 1,422,521; July 11.
- Babcock, Everett P., et al. (See Power, Dudley P., assignor.)
- Bach, Emmann, Woonsocket, R. I. Self-opening knurling tool. No. 1,422,649; July 11.
- Baird, Frank T., Blue Island, Ill. Adapter. No. 1,422,331; July 11.
- Bakula, Edward J., St. Louis, Mo. Phonograph-record brush. No. 1,422,166; July 11.
- Baldwin Locomotive Works, The. (See Shannon, Ellwood M., assignor.)
- Barbé, Maxime. (See Bernard, P., and Barbé.)
- Bareiss, John C., Philadelphia, Pa. Pipe and tube tester. No. 1,422,522; July 11.
- Bargar, Frederick C., Columbus, Ohio, assignor to Foamite Firefoam Company, New York, N. Y. Fire extinguisher. No. 1,422,406; July 11.
- Barnard, Samuel G. (See Dotzer, H., and Barnard.)
- Barry, Gerald G., Chicago, Ill. Wheel. No. 1,422,167; July 11.
- Barry, Gerald G., Chicago, Ill. Metal wheel. No. 1,422,168; July 11.
- Bartholdy, Max, Essen, assignor to Fried. Krupp Aktien-gesellschaft, Essen-on-the-Ruhr, Germany. Indicating-lever-limit gauge. No. 1,422,169; July 11.
- Barton, William L., assignor of forty-five per cent to J. L. Kerr, Vancouver, British Columbia, Canada. Overhead-wire transport system. No. 1,422,650; July 11.
- Bausch & Lomb Optical Company. (See Poser, Max, assignor.)
- Bava, Antonio G., San Francisco, Calif. Belting tool. No. 1,422,332; July 11.
- Baxter, William C., assignor to E. M. Trimble, doing business as the E. M. Trimble Manufacturing Company, Rochester, N. Y. Hinge. No. 1,422,651; July 11.
- Bay State Pump Company. (See Waterhouse, Harold D., assignor.)
- Beach, Clarence E., Binghamton, N. Y., assignor, by mesne assignments, to The Gamewell Fire Alarm Telegraph Company. Signaling mechanism. No. 1,422,523; July 11.
- Beal, Ralph W., and W. V., Alliance, Nebr. Bag holder. No. 1,422,524; July 11.
- Beal, Warren V. (See Beal, Ralph W. and W. V.)
- Beebe, John A., assignor of one-fourth to P. A. Greaves, Omaha, Nebr. Dumping mechanism for trucks. No. 1,422,077; July 11.
- Becher, Theodor, Gustavsborg, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuernberg, Germany. Segment gate. No. 1,422,076; July 11.
- Becker, Adolph, Wheeling, W. Va. Matrix and distributing apparatus for type-casting machines. No. 1,422,333; July 11.
- Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread cutter. No. 1,422,407; July 11.
- Bellamore, David H., New York, N. Y., and T. I. S. Boak, East Orange, N. J.; said Boak assignor to said Bellamore. Rim construction for pressed-steel wheels. No. 1,422,408; July 11.

- Bell, William A., Kenosha, Wis., assignor to C. M. Hall Lamp Company, Detroit, Mich. Lamp ring. No. 1,422,525; July 11.
- Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
- Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electrical connector device. No. 1,422,170; July 11.
- Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,422,171; July 11.
- Bennett, Clarence W., New York, N. Y. Velocipede. No. 1,422,172; July 11.
- Benoit, Napoleon, Watervliet, N. Y. Thread-cutting tool. No. 1,422,652; July 11.
- Berdan, Jacob M., Paterson, N. J., assignor to Johns-Manville Incorporated. Roofing. No. 1,422,526; July 11.
- Berger, Christian, assignor of one-half to F. L. Sawyer, New York, N. Y. Color print viewable by lights of different colors and making same. No. 1,422,527; July 11.
- Bernard, James L., Beaver, Pa. Safety screen. No. 1,422,409; July 11.
- Bernard, Paul, Boulogne-sur-Seine, and M. Barbé, Paris, France. Apparatus for lighting and extinguishing gas burners of street lamps. No. 1,422,249; July 11.
- Berringer, Henry J., San Francisco, Calif. Fender lamp. No. 1,422,528; July 11.
- Berry, Frederick E., Hayes, England. Electrical transformer for regulating or varying the voltage of the current supplied therefrom. No. 1,422,653; July 11.
- Beutler, Harvey L., Lake Park, Minn. Potato cutter. No. 1,422,731; July 11.
- Biggerstaff, Frank G., Kansas City, Mo. Harrow. No. 1,422,173; July 11.
- Bihn, William H., Petaluma, Calif. Egg turner. No. 1,422,250; July 11.
- Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Engine starting device. (Reissue.) No. 15,403; July 11.
- Bijur Motor Appliance Company. (See Bijur, Joseph, assignor.) (Reissue.)
- Bilker, Walter A., and A. C. Walker, assignors to The American Pulley Company, Philadelphia, Pa. Ladder and manufacturing the same. No. 1,422,654; July 11.
- Billingham, Milton C. J., assignor of one-half to H. L. Vander Horst, Kalamazoo, Mich. Method of and apparatus for disintegrating paper stock. No. 1,422,251; July 11.
- Bingaman, Raymond A., Batavia, Ohio. Advertising device. No. 1,422,529; July 11.
- Birosnak, Stephen S. K., Bridgeport, Conn. Toy. No. 1,422,334; July 11.
- Blackwell, Demarkus S., San Springs, Okla. Automobile sand and mud dog for attaching to vehicle wheels. No. 1,422,078; July 11.
- Blanton, John B., Chattanooga, Tenn., assignor of one-half to H. A. Wingers, St. Louis, Mo. Shutter for motion-picture-projecting machines. No. 1,422,410; July 11.
- Boak, Thomas I. S. (See Bellamore, D. H., and Boak.)
- Boettcher, Otto J., assignor of two-fifths to F. W. Maas and one-fifth to G. C. Hume, Chilton, Wis. Hoisting tackle. No. 1,422,174; July 11.
- Bonsor, Walter, assignor of one-half to W. C. Steenburg, South Bend, Ind. Carbonizing method. No. 1,422,530; July 11.
- Borden Company, The. (See Nonneman, Ira W., assignor.)
- Boreiko, Ladislav B., Honolulu, Hawaii. Loading and transporting apparatus. No. 1,422,252; July 11.
- Borick, Frank V., New York, N. Y. Screw driver. No. 1,422,411; July 11.
- Boston Pressed Metal Co. (See Needham, William H., assignor.)
- Boughter, H. Dixon, Decatur, Ill. Movable headlight. No. 1,422,732; July 11.
- Boyce, Carrol R., Wautoma, Wis. Automatic tool-dropping machine. No. 1,422,531; July 11.
- Bradley, Walter E. F., Nyack, N. Y. Metallurgical process. No. 1,422,734; July 11.
- Bradley, Walter E. F., New York, N. Y. Producing iron and steel. No. 1,422,733; July 11.
- Braley, Wayne M. (See Mitton, R. E., and Braley.)
- Brehmer, William G. H., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Bearing and making same. No. 1,422,655; July 11.
- Breit, Martin M., assignor of one-half to Light Publishing Company, San Antonio, Tex. Machine for making ornamental rules and borders. No. 1,422,532; July 11.
- Brennan, James, New Orleans, La. Banana unloader. No. 1,422,656; July 11.
- Brennan, John S., Milwaukee, Wis. Burner-lifting means. No. 1,422,079; July 11.
- Briggs, Isabelle M., executrix. (See Briggs, Thomas L.)
- Briggs, Thomas L., deceased, by I. M. Briggs, Flushing, executrix, assignor to General Chemical Company, New York, N. Y. Making chlorosulphonic acid. No. 1,422,335; July 11.
- Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Life raft. No. 1,422,657; July 11.
- Bronnert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,422,412; July 11.
- Brooks, Lloyd B., assignor to Stay-Rite Mfg. Co., Philadelphia, Pa. Necktie retainer. No. 1,422,658; July 11.
- Brown, Albert F., Los Angeles, and L. B. Burck, Pasadena, Calif. Automatic means for controlling electrically-heated devices. No. 1,422,735; July 11.
- Brown, Clement, Birchfield, Birmingham, England. Carburetor for internal-combustion engines. No. 1,422,413; July 11.
- Brown, Colin, Rochester, N. Y. Powder distributor. No. 1,422,253; July 11.
- Brown Company. (See Parker, Howard, assignor.)
- Brown, Earl R., Redlands, Calif. Ore separator. No. 1,422,736; July 11.
- Brown, Grace C., San Francisco, Calif. Water cycle. No. 1,422,533; July 11.
- Brown, Orlando H., Victoria, British Columbia, Canada. Grain elevator. No. 1,422,534; July 11.
- Brown, Ralph D. (See Luetgert, A. C., and Meiklejohn, assignors.)
- Brown, Thomas E. (See Hoover, W. W., and Brown.)
- Brown, Walter D. R., and W. T. Pickston, Bolton, England. Apparatus for automatic and continuous analysis and recording of gases. No. 1,422,080; July 11.
- Buccicone, Dario, Canonsburg, Pa. Feeding mechanism for tinning machines. No. 1,422,535; July 11.
- Buckeye Iron & Brass Works. (See Sauer, George A., assignor.)
- Buckham, George T. (See Dawson, A. T., and Buckham.)
- Buckham, George T., and J. I. Nasmith, assignors to Vickers Limited, Westminster, London, England. Wire-stretching machine. No. 1,422,081; July 11.
- Bucyrus Company. (See Gage, Clarence E., assignor.)
- Bullard, Lester H., San Leandro, Calif. Selective coupling. No. 1,422,536; July 11.
- Bulman, Elvah O., Grand Rapids, Mich. Bag holder. No. 1,422,659; July 11.
- Bump, George P., La Crosse, Wis. Loop-forming terminal clamp. No. 1,422,660; July 11.
- Burck, Lawrence B. (See Brown, A. F., and Burck.)
- Burke Electric Company. (See Burke, James, assignor.)
- Burke, James, Erie, Pa., assignor to Burke Electric Company. Rotor spider. No. 1,422,414; July 11.
- Burke, Paul, Green Bay, Wis., assignor, by mesne assignments, to Northwest Engineering Company. Control means for locomotive cranes. No. 1,422,082; July 11.
- Burke, Wilbur B., Cleveland, Ohio. Making tires. No. 1,422,537; July 11.
- Burns, Thomas A., assignor to Dunlop Tire and Rubber Goods Company, Limited, Toronto, Ontario, Canada. Apparatus for solutionizing tire beads. No. 1,422,083; July 11.
- Business Systems, Limited. (See Roberts, Herbert L., assignor.)
- Butcher, Harry E., assignor to The Standard Parts Company, Cleveland, Ohio. Demountable vehicle wheel rim. No. 1,422,661; July 11.
- Bylger, Frans L. L., Jersey City, N. J. Troughing pulley for belt conveyors. No. 1,422,662; July 11.
- Cadillac Motor Car Company. (See Aseltine, Fred E., assignor.)
- Callison, Abner F., Buffalo Creek, Colo. Loading and unloading means and portable body for trucks. No. 1,422,663; July 11.
- Cameron, Hugh, Newark, assignor to R. D. Kent, Passaic, N. J. Automatic scale. No. 1,422,664; July 11.
- Cameron, William H., assignor to Radium Chemical Company, Pittsburgh, Pa. Tool. No. 1,422,538; July 11.
- Carlson, Carl O., Riverside, Calif. Hand truck. No. 1,422,254; July 11.
- Carr, Thomas J., Newcastle-upon-Tyne, England. Ship's davit. No. 1,422,175; July 11.
- Carrier, Carl F. P., Philadelphia, Pa. Automatic electrical controlling device. No. 1,422,415; July 11.
- Carstarphen, Frederick C., Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Aerial tramway. No. 1,422,255; July 11.
- Carter, Martin E., Philadelphia, Pa. Strainer for sugar juices. No. 1,422,737; July 11.
- Caspari, Karl, Frankfurt-on-the-Main-Ginnheim, Germany. Tensioning peg for stringed instruments. No. 1,422,738; July 11.
- Cathrill, Jack, Los Angeles, Calif. Valve lock. No. 1,422,336; July 11.
- Catlett, Charles, Staunton, Va. Oxysalt composition. No. 1,422,337; July 11.
- Central Manufacturing Company. (See Schuette, August E., assignor.)
- Chain Belt Company. (See Fraser, D., Shafer, and Levalley, assignors.)
- Chalman, John E., assignor to Union Special Machine Company, Chicago, Ill. Folder for sewing machines. No. 1,422,176; July 11.
- Chanier, Gaston L., Jersey City, N. J., assignor to Pathe Exchange Inc., New York, N. Y. Film-testing machine. No. 1,422,665; July 11.
- Champion Ignition Company. (See McDougal, T. G., and McDowell, assignors.)
- Chapdelaine, Norbert, assignor, by mesne assignments, to International Toy Company, Limited, Montreal, Quebec, Canada. Child's vehicle. (Reissue.) No. 15,404; July 11.
- Chapman, Frank C., Modesto, Calif. Combustion and mixing chamber for dehydrators. No. 1,422,416; July 11.
- Chase-Shawmut Company, The. (See Conant, Franklin N., assignor.)
- Cherry, Isaac W., Pensacola, Fla. Window screen. No. 1,422,539; July 11.

- Chesnutt, Owen L., Atlanta, Ga. Tape or web printing machine. No. 1,422,666; July 11.
- Chladek, Joseph F., Niobrara, Nebr. Haystacker. No. 1,422,667; July 11.
- Chleso, Jorgen E., San Francisco, Calif. Brush. No. 1,422,739; July 11.
- Christensen, John L., Chicago, Ill. Fiber-board box. No. 1,422,540; July 11.
- Christofferson, Christian A., St. Paul, Minn. Signal lamp. No. 1,422,668; July 11.
- Christofferson, Christian A., St. Paul, Minn. Illuminated signal. No. 1,422,669; July 11.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon motor. No. 1,422,338; July 11.
- Church, Harold D., assignor to Packard Motor Car Company, Detroit, Mich. Shaft coupling. No. 1,422,339; July 11.
- Clanton, Grover C., Bayonne, N. J. Wall-radiator bracket. No. 1,422,177; July 11.
- Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Mold adapted for use in vulcanizing rubber articles. No. 1,422,084; July 11.
- Clayborne, Eli, Hot Springs, Ark. Snowplow. No. 1,422,417; July 11.
- Cleghorn, Charles A., Bedfordshire, assignor to The Gayner Pneumatic Company, Limited, London, England. Receptacle, flexible conduit gas mask, and the like. No. 1,422,670; July 11.
- Cleveland Graphite Bronze Company, The. (See Brehmer, William G. H., assignor.)
- Cochran, Clyde E., assignor to The Elwell-Parker Electric Company, Cleveland, Ohio. Spring steering fork for wheeled vehicles. No. 1,422,671; July 11.
- Coen Co. (See Sherwood, Carlyle J., assignor.)
- Coghlan, Thomas G., Wellsburg, W. Va. Thermocouple. No. 1,422,672; July 11.
- Cohen, William, Bayonne, N. J. Gasoline soldering iron. No. 1,422,740; July 11.
- Colby, Henry H., Tallula, Ill. Subsoil attachment for plows. No. 1,422,418; July 11.
- Collier, Shade B., Orlando, Fla. Grease retainer. No. 1,422,741; July 11.
- Collins, James, Lancaster, Pa. Parcel and package elevator or carrier. No. 1,422,673; July 11.
- Colonial Stamping Company. (See Schultz, Abraham J., assignor.)
- Columbia Graphophone Manufacturing Company. (See Hinkley, Frank C., assignor.)
- Commonwealth Shoe & Leather Company. (See Jones, Paul, assignor.)
- Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,422,419; July 11.
- Conant, Franklin N., Newburyport, Mass., assignor, by mesne assignments, to The Chase-Shawmut Company. Renewable fuse. No. 1,422,420; July 11.
- Conrad, Frederick A. and J. L., Los Angeles, Calif. Cap gauge for pneumatic tires. No. 1,422,256; July 11.
- Conrad, James L. (See Conrad, Frederick A. and J. L.)
- Consolidated Tool Works. (See Thompson, W., and Roy, assignor.)
- Continuous Process Coke Company. (See Helmholtz, Arthur W., assignor.)
- Cook, Edward F., Freeport, N. Y. Settling and septic tank. No. 1,422,674; July 11.
- Cook, William P., Laramie, Wyo. Tester. No. 1,422,742; July 11.
- Cooley, Roswell P., assignor to Vapor Car Heating Company, Inc., Chicago, Ill. Valve. No. 1,422,178; July 11.
- Cooper, Francis W., and H. Steadworthy, Montreal, Quebec, Canada. Anchor and clip for rails and the like. No. 1,422,340; July 11.
- Corcoran, Daniel P., Gridley, Calif. Gradometer. No. 1,422,743; July 11.
- Corona Manufacturing Company, The. (See Schlinglof, Frank C., assignor.)
- Cortese, Frank, New Brunswick, N. J. Bed attachment. No. 1,422,744; July 11.
- Coté, Adrian. (See Cote, Arthur J., and Coté.)
- Cote, Arthur J., and A. Coté, Franklin, Mass. Attachment for spinning machines. No. 1,422,745; July 11.
- Cottom, Albert E., East Brunswick, near Melbourne, Victoria, Australia. Manufacturing castings for shaping and drying hosiery. No. 1,422,675; July 11.
- Couse, Kibbey W., New York, N. Y. Keyway locator. No. 1,422,746; July 11.
- Coward, John D., Newton Upper Falls, Mass. Traffic signal. No. 1,422,179; July 11.
- Coxon, Sydney, Liverpool, and W. A. Williams, Wallasey, assignors to The Aladdin Renew Electric Lamp Corporation Limited, London, England. Renewal of the filaments in metal-filament electric lamps. No. 1,422,747; July 11.
- Crandell, Willis S., Elsmere, assignor to A. P. W. Paper Co., Albany, N. Y. Cylinder paper-making machine. No. 1,422,541; July 11.
- Crane, Richard. (See Snadecki, William J., assignor.)
- Creed, Frederick G., Croydon, England. Multiple-hull boat. No. 1,422,542; July 11.
- Cross, Guy C., Denver, Colo. Photographic film rack. No. 1,422,341; July 11.
- Cullen, Bernard P., and M. J. Wochna, Jersey City, N. J. Hand-bag catch. No. 1,422,748; July 11.
- Cuno Engineering Corporation. (See Cuno, Charles F., assignor.)
- Cuno Engineering Corporation, The. (See Cuno, Charles H., assignor.)
- Cuno, Charles F., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric switch and stop for winding drums. No. 1,422,181; July 11.
- Cuno, Charles H., assignor to The Cuno Engineering Corporation, Meriden, Conn. Electric switch for winding drums. No. 1,422,180; July 11.
- Cunningham, Orin D., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Method and apparatus for mixing solid materials with liquids. No. 1,422,421; July 11.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Treating gaseous hydrocarbon mixtures. No. 1,422,182; July 11.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Union Carbide Company, New York, N. Y. Treating gaseous mixtures. No. 1,422,183; July 11.
- Curme, George O., Jr., Pittsburgh, Pa., assignor, by mesne assignments, to Union Carbide Company, New York, N. Y. Separating ethylene and other components from gaseous mixtures containing the same. No. 1,422,184; July 11.
- Curry, Warren W. (See Darling, J., and Curry.)
- Cutler-Hammer Mfg. Co., The. (See Meyer, Friedrich W., assignor.)
- Cutler-Hammer Mfg. Co., The. (See Rodman, Thomas H., assignor.)
- Czarnecki, Boleslaw V., Schenectady, N. Y. Drinking-glass holder. No. 1,422,676; July 11.
- Dalitz, Harry, assignor to J. C. Hipp, Cleveland, Ohio. Gripping and pulling tool. No. 1,422,185; July 11.
- Dameron, Adolphus, Cleveland, Ohio. Work holder. No. 1,422,749; July 11.
- D & W Specialty Company. (See Deammer, Paul E., assignor.)
- D'Andrea, Nicola, assignor to one-half to M. Persichino, Bridgeport, Conn. Repair tip for shoes. No. 1,422,543; July 11.
- Dann, Ernest G., Cleveland, Ohio., assignor to The Dann Products Company. Manufacturing composite articles for bearings or other purposes. No. 1,422,677; July 11.
- Dann Products Company, The. (See Dann, Ernest G., assignor.)
- Darling, Joseph, and W. W. Curry, Chicora, Pa. Bung for tank filling and discharge fittings. No. 1,422,342; July 11.
- Darling, Loren W., assignor to one-half to A. E. Hammer-schmidt, Sycamore, Ill. Box machine. No. 1,422,544; July 11.
- Davies, David, Llanelly, and D. Jones, Tiroed, Wales. Apparatus used in the manufacture of sheet-metal plates. No. 1,422,085; July 11.
- Davies, Elmer C., Portland, Oreg. Piston globe valve. No. 1,422,343; July 11.
- Davis, Calvin R., assignor to Emerson-Brantingham Company, Rockford, Ill. Coupling for train of binders, mowers, and other vehicles. No. 1,422,186; July 11.
- Davis, John A. (See Hammond, Harry F., assignor.)
- Davis, Harmon L., Greenville, Pa. Lock nut. No. 1,422,750; July 11.
- Davis, Meshack, Schlater, Miss. Folding feed box. No. 1,422,422; July 11.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ammunition hoisting and loading apparatus for ordnance. No. 1,422,678; July 11.
- Dayton, Curtis I., Chicago, Ill., assignor to one-half to E. L. Dayton, Detroit, Mich. Coating apparatus. No. 1,422,545; July 11.
- Dayton, Ernest L. (See Dayton, Curtis I., assignor.)
- Day, William H., Lockport, N. Y. Drainage tank for automobile radiators. No. 1,422,679; July 11.
- Delano, Frank, et al. (See Power, Dudley P., assignor.)
- Delkeskamp, Henry D. (See Muhrerin, James A., assignor.)
- Demmer, Paul E., assignor to D. & W. Specialty Company, Marysville, Calif. Bumper. No. 1,422,546; July 11.
- Denbrook, Fred W., Fond du Lac, Wis. Motor-driven sled. No. 1,422,751; July 11.
- Desler, Arthur C., Radford, Va. Means for connecting automobile bodies to the chassis. No. 1,422,086; July 11.
- Des Parois, Aristide H., Montreal, Quebec, Canada. Heating apparatus. No. 1,422,087; July 11.
- Des Parois, Aristide H., Montreal, Quebec, Canada. Heating apparatus. No. 1,422,088; July 11.
- Detwiler, Forest V., Pottstown, Pa. Hydrocarbon burner. No. 1,422,752; July 11.
- Dever, Henry L., Owensboro, Ky. Grading machine. No. 1,422,753; July 11.
- Dever, Henry L., Owensboro, Ky. Grader. No. 1,422,754; July 11.
- Dewey, Frank H., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle hoist device. No. 1,422,344; July 11.
- Dezendorf, Richard L., Richmond Hill, N. Y. Means for and method of proving gas meters. No. 1,422,089; July 11.

- Dickie, David S., Winifred, Mont. Garden tool. No. 1,422,090; July 11.
- Dipworth, Hermann B., Saginaw, Mich. Vehicle spring. No. 1,422,755; July 11.
- Dissston, Henry, & Sons, Incorporated. (See Rogers, George L., assignor.)
- Dithmer, Reimer N., Chicago, Ill. Fishplate for railway rails. No. 1,422,187; July 11.
- Doman, Herman C., Oshkosh, Wis. Washing machine. No. 1,422,547; July 11.
- Donald, Donald, Sydney, New South Wales, Australia. Stay for casement windows. No. 1,422,680; July 11.
- Donaldson, William T., St. Paul, Minn., assignor to Standard Conveyor Company. Detector for elevators and conveyers. No. 1,422,091; July 11.
- Dörrfel, Ernst, Bernburg, Germany. Brush holder for electric machines. No. 1,422,188; July 11.
- Doty, Leman E., Elyria, Ohio, and F. H. Smith, Brentwood Borough, Pa. Apron for coke-oven doors. No. 1,422,756; July 11.
- Dotzer, Hugo, and S. G. Barnard, Seattle, Wash.; said Barnard assignor to said Dotzer. Brake mechanism. No. 1,422,423; July 11.
- Douglas, Harry A., Bronson, Mich. Circuit connector. No. 1,422,257; July 11.
- Douglas, William, Pawtucket, R. I. Trammel. No. 1,422,345; July 11.
- Dovan Chemical Corporation. (See Weiss, Morris L., assignor.)
- Dow Chemical Company, The. (See Harlow, Ivan F., assignor.)
- Doyle, Mason I. (See Schweinsberg, G. W., and Doyle.)
- Draper Corporation. (See Stafford, Alfred E., assignor.)
- Draper Corporation. (See Stimpson, Edward S., assignor.)
- Drvar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. No. 1,422,346; July 11.
- Dultmeier, Frank J., Manning, Iowa. Adjustable repair tongue hound. No. 1,422,681; July 11.
- Duncan, Thomas, East Chicago, Ind. Cigarette holder. No. 1,422,347; July 11.
- Duncan, Wayne A., Chicago, Ill. Electric steam-pressure cooker. No. 1,422,348; July 11.
- Dunkerton, Richard D. (See Johannes, E. E., and Dunkerton.)
- Dunlop Tire and Rubber Goods Company. (See Burns, Thomas A., assignor.)
- Dunn, William, Bannack, Mont. Animal trap. No. 1,422,424; July 11.
- Dunn, William, Bannack, Mont. Track brace. No. 1,422,425; July 11.
- Duplex Holding Company. (See Meyer, A., and Walsh, assignors.)
- Du Pont, E. I., de Nemours & Company. (See Gibbs, Harry D., assignor.)
- Du Pont, E. I., de Nemours & Company. (See Grob, A. R., and Adams, assignors.)
- Du Pont, E. I., de Nemours and Company. (See Tanberg, Arthur P., assignor.)
- Dvorak, Wenzel, Fernie, British Columbia, Canada. Pipe wrench. No. 1,422,548; July 11.
- Eastern Malleable Iron Company, The. (See Haugh, T. M., Schilling, and Finch, assignors.)
- Eastman Kodak Company. (See Riddell, William A., assignor.)
- Eaves, Augustus J., assignor to Western Electric Company, Incorporated, New York, N. Y. Multiple switch. No. 1,422,549; July 11.
- Eckertz, Heinrich, Essen-Rellinghausen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Coupling member for vehicles. No. 1,422,189; July 11.
- Egerton, Henry C., Ridgewood, N. J. Friction driving device. No. 1,422,550; July 11.
- Eigabroadt, Harry C., Amsterdam, N. Y. Signal-indicator system. No. 1,422,349; July 11.
- Eklund, John G., assignor to St. Joseph Iron Works, St. Joseph, Mich. Mechanical movement. No. 1,422,682; July 11.
- Electric Vacuum Cleaner Company. (See Hoff, Earl B., assignor.)
- Electric Vacuum Cleaner Company. (See Kirby, James B., assignor.)
- Elrod, Milton, Indianapolis, Ind., assignor to Warriner Manufacturing Company. Filter. No. 1,422,190; July 11.
- Eltgroth, John N., Fairmont, Minn. Boot protector. No. 1,422,683; July 11.
- Elwell, Cyril F. (See Lane, Charles J., assignor.)
- Elwell-Parker Electric Company, The. (See Cochran, Clyde E., assignor.)
- Emerson-Brantingham Company. (See Davis, Calvin R., assignor.)
- Emerson, Lawrence, Percy, Iowa. Tractor plow. No. 1,422,350; July 11.
- Emery, Harvey L., Worthington, assignor to Self Lay Block & Machine Company, Vincennes, Ind. Building block. No. 1,422,258; July 11.
- Erskine, Gordon. (See Grace, Edwin B., assignor.)
- Evans, John. (See Van Cott, A., and Evans.)
- Facciuto, Louis, Jr., et al. (See Facciuto, Luigi, Sr., assignor.)
- Facciuto, Luigi, Sr., Flushing, assignor of one-third to L. Facciuto, Jr., Lansing, and one-third to F. C. Leon, Flushing, Ohio. Railway-switch stand. No. 1,422,191; July 11.
- Falley, Lewis H., Kansas City, Mo. Separating and classifying apparatus. No. 1,422,092; July 11.
- Farmers Standard Carbide Co. (See Rogatz, William B., assignor.)
- Farr, Warren H., New York, N. Y., assignor to General Motors Corporation, Detroit, Mich. Cooling system for internal-combustion engines. No. 1,422,426; July 11.
- Fauchon-Villeplée, André L. O., Paris, France. Electric apparatus for propelling projectiles. No. 1,422,427; July 11.
- Fessler, Otto, Irvington, N. J. Bracelet link. No. 1,422,428; July 11.
- Fiechtl, Ferdinand, Cherryvale, Kans. Vertical smelting furnace. No. 1,422,684; July 11.
- Filkins, Charles D., Schenectady, N. Y., assignor to General Electric Company. Connection for electrical apparatus. No. 1,422,429; July 11.
- Finch, John W. (See Haugh, T. M., Schilling, and Finch.)
- Firestone Tire and Rubber Company, The. (See Heller, Jacob E., assignor.)
- Fisk Rubber Company, The. (See Fording, William G., assignor.) (Reissue.)
- Fisk Rubber Company, The. (See Knaus, Peter J., assignor.)
- Fisk Rubber Company, The. (See Taylor, Edward C., assignor.)
- Fitchet, Charles L., San Francisco, Calif. Mirror structure. No. 1,422,685; July 11.
- Fitzsimons, Theodore F., Stanmore, near Sydney, New South Wales, Australia. Can-body-ending machine. No. 1,422,192; July 11.
- Fletcher, John D. (See Sullivan, C. L., and Fletcher.)
- Fletcher, John D., Evansville, Ind. Paving block and roadway constructed therefrom. No. 1,422,551; July 11.
- Florin, John L., Davenport, Wash. Gear wheel. No. 1,422,351; July 11.
- Foamite Firefoam Company. (See Bargar, Frederick C., assignor.)
- Forbes, Alexander J., Brooklea, North Kessock, Scotland. Fastening for driving belts. No. 1,422,430; July 11.
- Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Combination back and side curtain. No. 1,422,431; July 11.
- Forbes, Percy L., West Middlesex, Pa. Hay loader. No. 1,422,432; July 11.
- Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire. (Reissue.) No. 15,405; July 11.
- Forman, Paris R., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Fare-recording apparatus. No. 1,422,686; July 11.
- Fornas, Louis, Paris, France. Gas producer. No. 1,422,093; July 11.
- Forsyth, George H., Chicago, Ill. Spare-tire carrier. No. 1,422,094; July 11.
- Fournier, Frederick, San Francisco, Calif. Window adjuster. No. 1,422,552; July 11.
- Fowler, Edward, and J. V. Lewis, St. Elmo, Tenn. Draft coupling. No. 1,422,194; July 11.
- Fowler, Jonathan O., New York, N. Y. Key base for plastic material. (Reissue.) No. 15,406; July 11.
- Fox, John C. (See Phelps, H. C., and Fox.)
- Frankenbüsch, Otto, Vienna, Austria. Apparatus for inking ribbons for typewriters of any make. No. 1,422,757; July 11.
- Frary, Francis C., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum alloy. (Reissue.) No. 15,407; July 11.
- Fraser, Donald, S. Shafer, Jr., and C. W. Levalley, deceased, by H. P. Levalley and Wisconsin Trust Company, executors, assignors to Chain Belt Company, Milwaukee, Wis. Apparatus for conveying and delivering material. No. 1,422,687; July 11.
- Friederich, Ernst, Berlin, Germany, assignor to General Electric Company. Inclosed-arc lamp and starting the same. No. 1,422,553; July 11.
- Fried, Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Eckertz, Heinrich, assignor.)
- Fried, Krupp Aktiengesellschaft Germaniawerft. (See Grunwald, Carl, assignor.)
- Fried, Krupp Aktiengesellschaft. (See Heilemann, Walter, assignor.)
- Frink, I. P., Inc. (See Spencer, William H., assignor.)
- Fries, Rudolf, Berlin-Schöneberg, Germany. Typewriting machine. No. 1,422,433; July 11.
- Froman, Joseph D., Vevay, Ind. Amusement device. No. 1,422,688; July 11.
- Fuller, Franz A., assignor to The J. E. Mergott Company, Newark, N. J. Bag frame. No. 1,422,554; July 11.
- Fuller, Franz A., assignor to The J. E. Mergott Co., Newark, N. J. Blotter. No. 1,422,555; July 11.
- Funk, Everett W., Columbus, Ohio. Combination wrench. No. 1,422,689; July 11.
- Futurist Company, The. (See Mower, Edward B., assignor.)
- Gabet, Gustave, Paris, France. Heating system. No. 1,422,556; July 11.
- Gablentz, Adolf, Lubeck, Germany. Door lock. No. 1,422,690; July 11.
- Gage, Clarence E., Evansville, Ind., assignor to Bucyrus Company, South Milwaukee, Wis. Saddle-block structure for excavators. No. 1,422,259; July 11.

- Gamewell Fire Alarm Telegraph Company, The. (See Beach, Clarence E., assignor.)
 Gamm, Charles C., St. Paul, Minn., assignor to Waldorf Paper Products Company. Scoring and trimming machine. No. 1,422,095; July 11.
 Cape, Henry B., Detroit, Mich. Hood fastener. No. 1,422,691; July 11.
 Garbeth, George, Stockton, Calif. Piston-ring compressor. No. 1,422,557; July 11.
 Gardan, Coll E., Wilson Creek, Wash. Extracting fertilizing elements from manure. No. 1,422,434; July 11.
 Gardiner, Lou M., assignor to The Iron Horse Tractor Co., Pittsburgh, Pa. Tractor. No. 1,422,558; July 11.
 Garrison, Cassius M. (See South, Mahlon C., assignor.)
 Gayner Pneumatic Company, Limited, The. (See Cleg-horn, Charles A., assignor.)
 General Chemical Company. (See Allen, Frank M., assignor.)
 General Chemical Company. (See Briggs, Thomas L., assignor.)
 General Electric Company. (See Filkins, Charles D., assignor.)
 General Electric Company. (See Friederich, Ernst, assignor.)
 General Electric Company. (See Halvorson, Cromwell, A. B., Jr., assignor.)
 General Electric Company. (See Stalberg, Sven, assignor.)
 General Motors Corporation. (See Farr, Warren H., assignor.)
 General Motors Corporation. (See Forbes, Kingston, assignor.)
 General Motors Corporation. (See Hamilton, Alexander C., assignor.)
 General Motors Corporation. (See Whitten, Frank A., assignor.)
 Germani, Bernard F., Seattle, Wash. Liquid container. No. 1,422,559; July 11.
 Ghetia, Nichitu V., Cleveland, Ohio. Hair clipper. No. 1,422,352; July 11.
 Gibbons, Nathan A., Martins Ferry, Ohio, assignor to Whitaker-Glessner Company, Wheeling, W. Va. Collapsible box. No. 1,422,692; July 11.
 Gibbs, Harry D., Pennsgrove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Making aluminum chloride. No. 1,422,560; July 11.
 Gillmor, Horatio G., Washington, D. C. Anticreep. No. 1,422,260; July 11.
 Girin, Pierre, assignor to Societe Anonyme de Commentry, Fourchambault & Decazeville, Paris, France. Alloy containing iron, nickel, chromium. No. 1,422,096; July 11.
 Gochencour, Benjamin C., Spokane, Wash. Lawn edger. No. 1,422,693; July 11.
 Gockel, Heinrich, Newwied-on-the-Rhine, Germany. Rolled iron bar. No. 1,422,694; July 11.
 Gohmann, John B., Lincoln, Nebr. Stove and furnace. No. 1,422,195; July 11.
 Goldberg, Morris, Brooklyn, N. Y. Attachment for neckscarfs. No. 1,422,758; July 11.
 Goldenbaum, Frederick C., Kearny, N. J., assignor to International Printing Plate Company, Inc., New York, N. Y. Forming celluloid printing plates. No. 1,422,695; July 11.
 Gomersall, John W., Manchester, England. Rubber-forming machine. No. 1,422,561; July 11.
 Goodin, George N., Macon, Ga., assignor to one-half to H. B. Grimshaw, Portsmouth, Va. Underframe and draft-arm connection. No. 1,422,562; July 11.
 Gooding, Harold S., Medford, Mass. Cap. No. 1,422,435; July 11.
 Goodyear, Charles H., Cedar Rapids, Iowa, assignor to Missouri Paper Products Company, St. Joseph, Mo. System of keeping notes. No. 1,422,696; July 11.
 Gore, Frederick W., Huntington, N. Y. Aircraft. No. 1,422,261; July 11.
 Gorgellino, Francesco, Turin, Italy. Motion device for automatons. No. 1,422,436; July 11.
 Grace, Edwin B., assignor to one-half to G. Erskine, Memphis, Tenn. Wheel-securing device. No. 1,422,697; July 11.
 Graham, Nelson W., Johannesburg, Transvaal, South Africa. Wrench. No. 1,422,563; July 11.
 Granger, Leo A. (See Trullinger, D. N., and Granger.)
 Gray, George B. M., Oakland, Calif. Gear-shift lock. No. 1,422,353; July 11.
 Gray, William E., Chicago, Ill. Lemon squeezer. No. 1,422,196; July 11.
 Greaves, Percy A. (See Beebe, John A., assignor.)
 Greffinius, Hugo, Frankfurt-on-the-Main, Germany. Ship for transporting raw products. No. 1,422,354; July 11.
 Green, Henry M., Los Angeles, Calif. Pump. No. 1,422,759; July 11.
 Green, Pansy F. (See Hodgdon, H. W., and Green.)
 Greene Aeronautical Company, The. (See Greene, Otto W., assignor.)
 Greene, Otto W., assignor to The Greene Aeronautical Company, Elyria, Ohio. Airplane. No. 1,422,197; July 11.
 Greenfield, David H., Denver, Colo. Ignition-point grinder. No. 1,422,097; July 11.
 Greenleaf, George E., and C. F. Randolph, Plainfield, N. J., assignors to Niles-Bement-Pond Company, New York, N. Y. Lathe headstock. No. 1,422,098; July 11.
 Grimshaw, Harry B. (See Goodin, George N., assignor.)
 Griswold Manufacturing Company, The. (See Griswold, Roger W., assignor.)
 Griswold, Roger W., assignor to The Griswold Manufacturing Company, Erie, Pa. Handle. No. 1,422,355; July 11.
 Grob, Armin R., Wilmington, Del., and C. C. Adams, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphonating carbon compounds. No. 1,422,564; July 11.
 Groenewegen, Gijsbertus, Delft, Netherlands. Valve for steam engines. No. 1,422,437; July 11.
 Grossmann, Hans, Zurich, Switzerland. Kindling device. No. 1,422,698; July 11.
 Grubler, Erhard, Borsdorf, near Leipzig, Germany. Motor tractor. No. 1,422,438; July 11.
 Grunwald, Carl, Essen-Bredeney, assignor to Fried. Krupp Aktiengesellschaft Germaniaewerft, Kiel-Gaarden, Germany. Cooling device for internal-combustion engines. No. 1,422,565; July 11.
 Grupe, William F. (See Adamson, A. A., and Grupe.)
 Gruss, Lucien R., assignor to Pneumatic Cushion Co., San Francisco, Calif. Air-spring rigging. No. 1,422,566; July 11.
 Gudith, Walter. (See Hacking, John G., assignor.)
 Guerin, William J., Brooklyn, N. Y. Ice-cream-dispensing machine. No. 1,422,198; July 11.
 Guernsey, Ernest W., and J. Y. Yee, Washington, D. C. Producing phosphoric acid. No. 1,422,699; July 11.
 Guillery, René, assignor to Société des Etablissements Malicot & Blin, Aubervilliers, Seine, France. Vehicle suspension. No. 1,422,567; July 11.
 Hacking, John G., assignor to one-half to W. Gudith, Detroit, Mich. Water-power apparatus. No. 1,422,700; July 11.
 Hall, C. M., Lamp Company. (See Bell, William A., assignor.)
 Hall, Frank W., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Manufacture of aluminum chloride. No. 1,422,568; July 11.
 Hall, Joseph, Stockport, England. Self-starting injector for steam boilers. No. 1,422,199; July 11.
 Halvorson, Cromwell A. B., Jr., Lynn, Mass., assignor to General Electric Company. Anode for luminous arc lamps. No. 1,422,439; July 11.
 Hamel Shoe Machinery Company. (See Adams, Charles F., assignor.)
 Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
 Hamilton, Alexander C., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Cushioned gear. No. 1,422,440; July 11.
 Hammond, Harry F., South Shaftsbury, assignor to one-half to J. A. Davis, Dover, Vt. Soldering iron. No. 1,422,357; July 11.
 Hammerschmidt, Albert E. (See Darling, Loren W., assignor.)
 Hammes, John W., Racine, Wis. Floating weather strip. No. 1,422,569; July 11.
 Handley Page Limited. (See Page, Frederick H., assignor.)
 Hanle, Benjamin W., Roselle Park, N. J. Wrench. No. 1,422,760; July 11.
 Hansen, Christ, Mink Creek, Idaho. Hammer. No. 1,422,262; July 11.
 Harbord, Frank W., London, England. Roasting complex zinc sulphide ores or the like. No. 1,422,701; July 11.
 Hardy, William B., and J. J. Piqué, Westminster, London, England. Apparatus for cooling and freezing of fish and the like. No. 1,422,570; July 11.
 Harlow, Ivan F., assignor to The Dow Chemical Company, Midland, Mich. Extracting potassium salts from bitters. No. 1,422,571; July 11.
 Harmon, Anne, Irvington-on-the-Hudson, N. Y. Athletic skirt. No. 1,422,441; July 11.
 Harris, Harry E., Bridgeport, Conn. Grinding wheel. No. 1,422,200; July 11.
 Harter, Marion H., Minneapolis, Minn. Cotter-pin puller. No. 1,422,201; July 11.
 Hartman, William H., Philadelphia, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Hammer crusher. No. 1,422,761; July 11.
 Haskel, Fred, Detroit, Mich. Two-piece pulley construction. No. 1,422,263; July 11.
 Haslev, Andreas M., Randers, Denmark. Retarded electromagnetic switch. No. 1,422,702; July 11.
 Hatfield, Floyd H., Rawlins, Wyo. Casing swage. No. 1,422,762; July 11.
 Haugh, Thomas M., L. C. Schilling, and J. W. Finch, assignors to The Eastern Malleable Iron Company, New Britain, Conn. Automatic poker. No. 1,422,442; July 11.
 Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,422,264; July 11.
 Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,422,265; July 11.
 Hayes & Meserole Mfg. Co. (See Meserole, Milton D., assignor.)
 Head, Casimir J., London, England. Manufacture of chromic oxide and sodium sulphide from sodium chromate. No. 1,422,703; July 11.
 Heeter, Charles M., Butler, Pa. Oil-well packer. No. 1,422,704; July 11.

- Heilemann, Walter, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with independent sighting line. No. 1,422,099; July 11.
- Helfer, Charles A., Los Angeles, Calif. Telemotor. No. 1,422,705; July 11.
- Heller, Jacob E., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Extruding machine. No. 1,422,356; July 11.
- Helmholtz, Arthur W., Harrisburg, assignor to Continuous Process Coke Company, Chicago, Ill. Method of and means for distilling coal. No. 1,422,706; July 11.
- Hemming, Carl H., New Haven, Conn. Cutlery-polishing machine. No. 1,422,358; July 11.
- Hemming, Gustav F., deceased, New Haven, Conn.; T. L. Hemming, administratrix. Polishing compound for finishing table cutlery. No. 1,422,707; July 11.
- Hemming, Theresa L., administratrix. (See Hemming, Gustav F.)
- Henderson, Hiram L. (See Henderson, Nelson H. and H. L.)
- Henderson, Nelson H. and H. L., Syracuse, N. Y. Dry kiln. No. 1,422,202; July 11.
- Heatzman, A. H., Company, The. (See Heatzman, Arthur H., assignor.)
- Heatzman, Arthur H., Baltimore, Md., assignor to The A. H. Heatzman Company. Gliding coaster. No. 1,422,203; July 11.
- Hill, Charles E., San Bernardino, Calif. Air and water service hose locker. No. 1,422,359; July 11.
- Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Talking machine. No. 1,422,266; July 11.
- Hipp, J. C. (See Dalitz, Harry, assignor.)
- Hitt, Samuel E., Elyria, Ohio, and J. I. Peyton, Chicago, Ill. Ingot mold. No. 1,422,572; July 11.
- Hodgdon, Herbert W., and P. F. Green, St. Louis, Mo. Potato-peeling machine. No. 1,422,708; July 11.
- Hodgson, James, Carlisle, England. Attachment for converting motor driven chassis into tractors for agricultural purposes. No. 1,422,709; July 11.
- Hoff, Earl B., assignor, by mesne assignments, to Electric Vacuum Cleaner Company, Inc., East Cleveland, Ohio. Beater for suction cleaners. No. 1,422,100; July 11.
- Hoffman, Paul, Easton, Pa., and F. C. Reed, Harriette, Mich., assignors to Ingersoll Rand Company, Jersey City, N. J. Gas-booster regulator. No. 1,422,573; July 11.
- Hoge, Frederick, Zoug, Switzerland. Leading-in wires for incandescent electric lamps. No. 1,422,443; July 11.
- Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Cover for typewriter keys. No. 1,422,267; July 11.
- Holcroft, Charles T., Detroit, Mich. Annealing malleable cast iron. No. 1,422,710; July 11.
- Hollis, William H., Germantown, assignor of one-half to Dr. V. Pinnock-Bailey, Philadelphia, Pa. Wash-basin for automobiles. No. 1,422,763; July 11.
- Holmes, Walter G., Minneapolis, Minn. Knockdown dental and surgical table. No. 1,422,101; July 11.
- Holzappel, Albert C., New York, N. Y. Paint. No. 1,422,711; July 11.
- Hood, Delaware J., Philadelphia, Pa. Talking machine. No. 1,422,712; July 11.
- Hoover, Wilson W., and T. E. Brown, New York, N. Y. Working oil shales. No. 1,422,204; July 11.
- Hosking, William C. S. (See McEwen, William, assignor.)
- Hough, Clarence E., Bowen, Ill. Milk-bottle carrier. No. 1,422,574; July 11.
- Howard, William H., Salt Lake City, Utah, assignor to American Smelting and Refining Company, New York, N. Y. Discharging smelter gases. No. 1,422,575; July 11.
- Howland, Waldo A., Adams, Mass. Controller for automatic vacuum breakers. No. 1,422,444; July 11.
- Hughes, George W., West Philadelphia, Pa. Pulley adapter. No. 1,422,360; July 11.
- Hulder, Joseph P., New York, N. Y., assignor to The Unit Player Action Co. Tracking device for player pianos. No. 1,422,713; July 11.
- Hume, Geo. C., et al. (See Boettcher, Otto J., assignor.)
- Humphreys, William, Fullerton, Pa., assignor to Wilmore Manufacturing Company, Chicago, Ill. Measuring gauge. No. 1,422,576; July 11.
- Hundrieser, Hans, Halensee, near Berlin, Germany. Tubular rock drill. No. 1,422,361; July 11.
- Hupfel, Adolph G., Reno, Nev., assignor to Hup Mfg. Co., Inc., New York, N. Y. Type-holding means for marking devices. No. 1,422,268; July 11.
- Hup Mfg. Co. (See Hupfel, Adolph G., assignor.)
- Hutchinson, Robert, Nottingham, England. Aging wheaten flour to improve its baking qualities. No. 1,422,102; July 11.
- Illingworth, George C., Anniston, Ala. Reciprocating pan conveyor. No. 1,422,270; July 11.
- Illingworth, Stewart R., Treforest, Wales. Coking of coal. No. 1,422,269; July 11.
- Ingersoll Rand Company. (See Hoffman, P., and Reed, assignors.)
- Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
- Ingold, Paul A., Paris, France. Jointed artificial hand. No. 1,422,714; July 11.
- International Motor Company. (See Lotz, Walter P., assignor.)
- International Printing Plate Company. (See Goldenbaum, Frederick C., assignor.)
- International Toy Company. (See Chapdelaine, Norbert, assignor.) (Reissue.)
- Iron Horse Tractor Co., The. (See Gardiner, Lou M., assignor.)
- Irsch, Jacob, New York, N. Y. Amusement ride. No. 1,422,764; July 11.
- Jarry, Frederick, assignor of one-half to S. Taylor, New Bedford, Mass. Slub catcher. No. 1,422,271; July 11.
- Jarry, Frederick. (See Taylor, S., and Jarry.)
- Jaskowiak, Frank, St. Cloud, Minn. Bench or floor dog. No. 1,422,272; July 11.
- Jasperson, John J., Randwick, near Sydney, Australia, New South Wales. Expanding reamer. No. 1,422,208; July 11.
- Jaworski, Paul, Bismarckbütte, Upper Silesia. Coking chamber for generators. No. 1,422,206; July 11.
- Jeammet-Leyrit, René A., Billancourt, near Paris, France. Automatically-clamping tongs for grasping plates and dishes. No. 1,422,215; July 11.
- Jobski, Otto H., assignor to The Standard Parts Company, Cleveland, Ohio. Rim. No. 1,422,715; July 11.
- Johannes, Edward E., and R. D. Dunkerton, Devon, Kans. Disk truck. No. 1,422,362; July 11.
- Johnson, Austin C., assignor to Production Meter Company, Chicago, Ill. Indicating and recording apparatus. No. 1,422,207; July 11.
- Johnson, Carl E., Chanute, Kans. Battery grip. No. 1,422,765; July 11.
- Johnson, David E., and T. A. Madsen, assignors to National Lock Company, Rockford, Ill. Method and apparatus for making headed machine parts. No. 1,422,274; July 11.
- Johnson, Jonas, Ramsay, Mich. Pocketknife. No. 1,422,363; July 11.
- Johnson, Oscar H. (See Pollard, G. T., and Johnson.)
- Johns-Manville Incorporated. (See Berdan, Jacob M., assignor.)
- Johnston, Harry B., Seattle, Wash. Piston and piston ring. No. 1,422,273; July 11.
- Jones, David. (See Davies, D., and Jones.)
- Jones, James H. (See Jones, Kenneth C. and J. H.)
- Jones, Kenneth C., Chagrin Falls, and J. H. Jones, Cleveland Heights, Ohio. Rug-scouring machine. No. 1,422,445; July 11.
- Jones, Oscar W., Cambridge City, Ind. Advertising wheel. No. 1,422,577; July 11.
- Jones, Paul, Hanson, assignor to Commonwealth Shoe & Leather Company, Whitman, Mass. Shoe sole. No. 1,422,716; July 11.
- Joosting, Pieter, Utrecht, Netherlands. Lift bridge. No. 1,422,717; July 11.
- Jordan, Thomas E., Malden, assignor to Oliver Whyte Co., Inc., Boston, Mass. Seesaw. No. 1,422,766; July 11.
- Jüst, Joseph. (See Schenkel, M., and Jüst.)
- Kaplan, Louis, New York, N. Y. Rubber heel. No. 1,422,446; July 11.
- Kattenberg, Carsten H., San Francisco, Calif. Cigar and cigarette ash retainer. No. 1,422,578; July 11.
- Keast, Ernest, Negaunee, Mich. Excavating and loading machine. No. 1,422,767; July 11.
- Keehn, Clarence C., assignor to The Lisk Manufacturing Company, Ltd., Canandaigua, N. Y. Sustaining means for infants' bathtubs. No. 1,422,718; July 11.
- K. F. & C. Tire & Rubber Corporation. (See Krusemark, Frederick A., assignor.)
- Kelsay, Le Roy W., assignor to Western Electric Company, Incorporated, New York, N. Y. Switching key. No. 1,422,447; July 11.
- Kennington, William O., London, England, assignor to The Remy Electric Company. Ignition system. (Reissue.) No. 15,408; July 11.
- Kenny, James N., Ottawa, Ontario, Canada. Conveyor belt. No. 1,422,208; July 11.
- Kent, Earl and G., Tacoma, Wash. Dispensing device. No. 1,422,768; July 11.
- Kent, Glenn. (See Kent, Earl and G.)
- Kent, Robert D. (See Cameron, Hugh, assignor.)
- Kent, William J., Brooklyn, N. Y., assignor to Peerless Rubber Manufacturing Company. Making rubber tiling. No. 1,422,579; July 11.
- Kerr, John L. (See Barton, William L., assignor.)
- Kik, Charles L., Los Angeles, Calif. Iceless refrigerator. No. 1,422,364; July 11.
- Kik, Charles L., Los Angeles, Calif. Iceless refrigerator. No. 1,422,365; July 11.
- Kingsbury, Albert, Greenwich, Conn. Bearing. No. 1,422,448; July 11.
- Kinsler, Henry F., Chattanooga, Tenn. Scale. No. 1,422,104; July 11.
- Kirby, James B., Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc. Suction cleaner. No. 1,422,105; July 11.
- Klots, Walter J., Scranton, Pa., assignor to W. J. Klots Raw Silk Cleaner Co. Inc. Thread cleaner. No. 1,422,106; July 11.
- Klots, W. J., Raw Silk Cleaner Co. (See Klots, Walter J., assignor.)
- Knaus, Peter J., Milwaukee, Wis., assignor, by mesne assignments, to The Fisk Rubber Company, Chicopee Falls, Mass. Apparatus for vulcanizing articles of rubber or rubberized fabric. No. 1,422,209; July 11.
- Koch, Louis O., Little Rock, Ark. Portable heater. No. 1,422,440; July 11.

- Koch, Wellington A., Plainfield, N. J. Traffic signal. No. 1,422,210; July 11.
- Kondolf, Mathias R., Philadelphia, Pa. Box-pressing machine. No. 1,422,580; July 11.
- Kositzky, Carl R., Bismarck, N. Dak. Covered folding frame. No. 1,422,450; July 11.
- Kramer, Andrew A., Kansas City, Mo. Tank construction. No. 1,422,107; July 11.
- Kronenberg, Rudolf, Ohligs, Germany. Air-cooled internal-combustion engine. No. 1,422,719; July 11.
- Kropf, Walter R., assignor of one-half to A. G. Siebert, San Francisco, Calif. Corner brace. No. 1,422,770; July 11.
- Krusemark, Frederick A., assignor to K. F. & C. Tire & Rubber Corporation, Roanoke, Va. Making rubberized tire fabric. No. 1,422,451; July 11.
- Kukac, Edward J., Chicago, Ill. Mold. No. 1,422,108; July 11.
- Kunkel, Sherman T., Los Angeles, Calif. Gauge-cock operating tool. No. 1,422,771; July 11.
- Lace, Edward H., Vandergrift, Pa. Dental-plate anchorage. No. 1,422,452; July 11.
- Lahay, Frank T., Akron, Ohio. Manufacturing insulating and resistant articles and products thereof. No. 1,422,720; July 11.
- Lamb, Arthur B., Washington, D. C. Method and apparatus for treating gases and gaseous substances. No. 1,422,211; July 11.
- Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Electrically-heated utensil. No. 1,422,721; July 11.
- Lambert, Frank W., Hancock, Iowa. Propeller. No. 1,422,109; July 11.
- Lane, Charles J., assignor to C. F. Elwell, London, England. Separating or sorting apparatus. No. 1,422,807; July 11.
- Lane, Walter, Holland, Mich. Pneumatic piano player. No. 1,422,275; July 11.
- Lane, Walter, Holland, Mich. Automatic player piano. No. 1,422,276; July 11.
- Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)
- Landers, Frary & Clark. (See Smart, Joseph F., assignor.)
- Landin, Peter J., Denver, Colo. Phonograph. No. 1,422,453; July 11.
- Langland, Lamuert H., Windom, Minn. Combination rolling cutter and shoe furrow opener for corn planters. No. 1,422,454; July 11.
- Larner, Chester W., Cleveland, Ohio. Governor-operated pressure regulator. No. 1,422,212; July 11.
- Laurencey, Guillaume C., and M. Viedor, London, England. Process of and apparatus for preparing textile fibers for spinning. No. 1,422,581; July 11.
- Lauterbur, Frank X., Sidney, Ohio. Safety clutch device for mixers. No. 1,422,213; July 11.
- Lea, Charles, Boston, Mass., assignor, by mesne assignments, to Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Weft supply and placing mechanism. No. 1,422,722; July 11.
- Leblanc, Maurice C. A., Val-sur-Seine, par Croissy, assignor to Societe Anonyme Pour L'Exploitation Des Procédés Westinghouse Leblanc, Paris, France. Steam ejector. No. 1,422,582; July 11.
- Lebovici, Justin, Oakley, Ohio, assignor to The Triumph Electric Company. Interlock circuit protector. No. 1,422,110; July 11.
- Lebo, Robert B., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Purifying higher secondary alcohols. No. 1,422,583; July 11.
- Lees-Bradner Co. (See Schurr, C. H., and Lees, assignors.) (Reissue.)
- Lees, Ernest J. (See Schurr, C. H., and Lees.) (Reissue.)
- Leger, Oswald C., Los Angeles, Calif. Cap shaper. No. 1,422,366; July 11.
- Leggett & Platt Spring Bed Company. (See Ziler, Corban H., assignor.)
- Leibovitz, Moritz, Lorain, Ohio. Combination clasp and lock. No. 1,422,214; July 11.
- Leisse, Frederick J., St. Louis, Mo. Automobile tire. No. 1,422,723; July 11.
- Lenhoff, John A., Hockessin, Del. Attachment for awnings. No. 1,422,772; July 11.
- Leon, Frank C., et al. (See Facciuto, Luigi, Sr., assignor.)
- Le Pontois, Anna, administratrix. (See Le Pontois, Leon J.)
- Le Pontois, Leon J., deceased, Lakewood; A. Le Pontois, administratrix, assignor to The Teagle Company, Cleveland, Ohio. Electric generator. No. 1,422,584; July 11.
- Levalley, Christopher W. (See Fraser, D., Shafer, and Levalley.)
- Levalley, Helen P., et al., executors. (See Fraser, D., Shafer, and Levalley.)
- Levy & Merzbach. (See Levy, Isidor J., assignor.)
- Levy, Isidor J., assignor to Levy & Merzbach, New York, N. Y. Combined purse and vanity-case frame. No. 1,422,724; July 11.
- Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Thrust bearing. No. 1,422,585; July 11.
- Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
- Lewis, John V. (See Fowler, E., and Lewis.)
- Liebowitz, Benjamin, New York, N. Y. Vehicle suspension. No. 1,422,586; July 11.
- Liebowitz, Benjamin, New Rochelle, N. Y. Vehicle suspension. No. 1,422,587; July 11.
- Light Publishing Company. (See Breit, Martin M., assignor.)
- Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Company, Sturgis, Mich. Child's carriage. No. 1,422,277; July 11.
- Link-Belt Company. (See Schott, Joseph F., assignor.)
- Lisk Manufacturing Company, The. (See Keehn, Clarence C., assignor.)
- Liva, Philipp, Brooklyn, N. Y. Wire-bending machine. No. 1,422,455; July 11.
- Ljungstrom, Fredrik, Brevik Lidington, assignor to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Turbine-driven locomotive. No. 1,422,111; July 11.
- Logan, Ivan B. (See Tonkin, Arthur S., assignor.)
- Lord, Emory H., Washington, D. C. Measuring device. No. 1,422,112; July 11.
- Lotz, Walter P., New Brunswick, N. J., assignor to International Motor Company, New York, N. Y. Boring machine. No. 1,422,456; July 11.
- Low, Arthur B., Denver, Colo. Pressure gauge. No. 1,422,278; July 11.
- Lueigert, Arnold C., and E. H. Meiklejohn, assignors of one-third to R. D. Brown, Seattle, Wash. Portable roadway. No. 1,422,280; July 11.
- Lufkin Rule Company, The. (See Schleicher, John A., assignor.)
- Lydick, John M., San Diego, Calif. Jackscrew. No. 1,422,279; July 11.
- Maas, Fred W., et al. (See Boettcher, Otto J., assignor.)
- McCarthy, William J., Rochelle Park, N. J. Vignetting tool. No. 1,422,773; July 11.
- McClanahan, Thomas G., Seattle, Wash. Trolling lure. No. 1,422,457; July 11.
- McClellan, John, assignor of one-half to D. B. Wiggins, Philadelphia, Pa. Combined spark timer and oil pump. No. 1,422,725; July 11.
- McCullough, William C. (See White, O. M., and McCullough.)
- McDonald, Elijah D., Los Angeles, Calif. Deep-well pump. No. 1,422,588; July 11.
- McDowell, Samuel J. (See McDougal, T. G., and McDowell.)
- McDougal, Taine G., and S. J. McDowell, assignors to Champion Ignition Company, Flint, Mich. Synthetic jewel bearing. No. 1,422,216; July 11.
- McEwen, William, assignor of one-half to W. C. S. Hosking, Waiuku, Auckland, New Zealand. Pneumatic tire. No. 1,422,113; July 11.
- McFarland, Clarence R., Marion, Ill. Undergarment. No. 1,422,281; July 11.
- McGillivray, Harry, New York, N. Y. Safety device for elevators. No. 1,422,774; July 11.
- McGlauffin, Eugene G., Portland, Oreg. Heat-radiating device. No. 1,422,282; July 11.
- McGovern, John W., Port Alice, British Columbia, Canada. Reversible fluid-pressure turbine. No. 1,422,458; July 11.
- McKim, John F., San Jose, Calif. Hutch. No. 1,422,283; July 11.
- McNab, Joseph W. (See Tobias, William L., assignor.)
- McQuiston, John D., Sioux City, Iowa. Car-door lock. No. 1,422,589; July 11.
- Macfarlane, James W., et al. (See Anderson, Albin E., assignor.)
- MacInnes, Neil, Chicago, Ill. Automobile bumper. No. 1,422,103; July 11.
- Mackenzie, James H., Sydney, New South Wales, Australia. Air-tightly sealing composition for metal containers, specially those for food. No. 1,422,114; July 11.
- MacLaurin, Robert D., Toronto, Ontario, Canada. Singeing hogs. No. 1,422,217; July 11.
- Mack, Rudolph A., Gallipolis, Ohio. Steering mechanism. No. 1,422,284; July 11.
- Madsen, Thorvald A. (See Johnson, D. E., and Madsen.)
- Mahar, George M., and P. M. Phelps, Fair Haven, Vt. Coffin. No. 1,422,726; July 11.
- Maimin, Hyman, New York, N. Y. Motor drive for sewing machines. No. 1,422,218; July 11.
- Majors, Walter L., St. Louis, Mo. Antiskid device. No. 1,422,285; July 11.
- Majors, Walter L., St. Louis, Mo. Mimeograph attachment. No. 1,422,286; July 11.
- Manhart, Anton, Vienna, Austria. Alloys of aluminium and producing the same. No. 1,422,591; July 11.
- Manley Manufacturing Company, The. (See Manley, Robert E., assignor.)
- Manley, Robert E., assignor to The Manley Manufacturing Company, York, Pa. Portable floor crane. No. 1,422,459; July 11.
- Mansel, Paul, Siemensstadt, near Berlin, assignor to Siemens & Halske A. G., Berlin, Germany. Clock. No. 1,422,590; July 11.
- Marchand, Edward J., Duluth, Minn. Fly exterminator. No. 1,422,287; July 11.
- Marker, Van N., Chicago, Ill. Compensating starting switch. No. 1,422,592; July 11.
- Marks, Paul J., Rochester, N. Y. Photographic shutter. No. 1,422,460; July 11.
- Marks, Paul J., Rochester, N. Y. Iris diaphragm. No. 1,422,461; July 11.

- Marlin Firearms Corporation, The. (See Swebilus, Carl G., assignor.)
- Marietta Paint & Color Company, The. (See Murray, Alexander, assignor.)
- Marsh, Howard E. (See Starr, E. B., and Marsh.)
- Martin, Alfred V. P., Brooklyn, N. Y. Hair-curler and waver. No. 1,422,593; July 11.
- Martin, Rutherford B., New York, N. Y. Composition for treating manufactured rubber. No. 1,422,115; July 11.
- Martucci-Pisculli, Leon, New York, N. Y. Toy. No. 1,422,775; July 11.
- Maschinenfabrik Augsburg-Nuernberg A. G. (See Becher, Theodor, assignor.)
- Mathers, Samuel A., Chillicothe, Ohio. Railway truck. No. 1,422,116; July 11.
- Mathews, Alexander. (See White, O. M., and McCullough, assignors.)
- Matzen, Herman N., Cleveland Heights, Ohio. Pipe. No. 1,422,367; July 11.
- Mauck, Victor, Norristown, Pa. Munition casing. No. 1,422,219; July 11.
- Maxenchs, Hyacinth, New York, N. Y. Flexible metallic structure. No. 1,422,776; July 11.
- Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,594; July 11.
- Maxwell, Maxwell C., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Cylinder lock. No. 1,422,595; July 11.
- Mehlis, Ferdinand, Berlin-Buchholz, Germany. Emergency bearing for railway cars. No. 1,422,596; July 11.
- Melkjohn, Ernest H. (See Luetgert, A. C., and Melkjohn.)
- Meinhardt, Jacob A., Chicago, Ill. Mop frame and handle coupling. No. 1,422,368; July 11.
- Melloy, James H., and W. Owen, assignors to Wm. Muir and Company, Limited, Manchester, England. Gear cutting, slotting, and like machines. No. 1,422,462; July 11.
- Mereen, Arno, Berkeley, Calif. Edger. No. 1,422,463; July 11.
- Mergenthaler Linotype Company. (See Rousseau, Joseph L., assignor.)
- Mergott, J. E., Company, The. (See Fuller, Franz A., assignor.)
- Merkle, Francis L., Portland, Me. Guard chain for pneumatic tires. No. 1,422,117; July 11.
- Merritt, Frank W., and A. E. Watts, Duluth, Minn. Level-registering means. No. 1,422,118; July 11.
- Meserole, Milton D., Milford, assignor to Hayes & Meserole Mfg. Co., New Haven, Conn. Barrette. No. 1,422,464; July 11.
- Metcalfe, Robert F., Erie, Pa. Controlling device for boiler furnaces. No. 1,422,369; July 11.
- Meteor Mixing Machine Co. (See Trust, Josephine and H., assignors.)
- Metz, Herman A. (See Myers, Chester N., assignor.)
- Meyer, August, Minneapolis, Minn., and P. R. Walsh, assignors, by mesne assignments, to Duplex Holding Company, St. Louis, Mo. Method of and apparatus for treating timber and the like. No. 1,422,119; July 11.
- Meyer, Friedrich W., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Regulating and control apparatus and system. No. 1,422,120; July 11.
- Millen, Rudolph A., Detroit, Mich. Ratchet wrench. No. 1,422,121; July 11.
- Miller, Frederick B., Scottsdale, Pa. Wheel. No. 1,422,597; July 11.
- Miller & Pardee, Inc. (See Pardee, Harvey S., assignor.)
- Mine & Smelter Supply Company, The. (See Pollard, G. T., and Johnson, assignors.)
- Misenheimer, Lindsay W., Great Falls, S. C. Frictional bushing coupling. No. 1,422,598; July 11.
- Missouri Paper Products Company. (See Goodyear, Charles H., assignor.)
- Mitchell, Harry C., Yonkers, N. Y. Ornamenting device and method. No. 1,422,599; July 11.
- Mitton-Braley Aero-Plane Control Co. (See Mitton, R. E., and Braley, assignors.)
- Mitton, Robert E., and W. M. Braley, assignors to Mitton-Braley Aero-Plane Control Co., Salt Lake City, Utah. Controlling mechanism for flying machines. No. 1,422,288; July 11.
- M-L Magneto Syndicate Limited, The. (See Watson, Ernest A., assignor.)
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing machine for applying button stay strips. No. 1,422,220; July 11.
- Mohawk Carpet Mills Inc. (See Lea, Charles, assignor.)
- Molins, Walter E., London, England. Apparatus for collecting and conveying cigarettes or the like. No. 1,422,600; July 11.
- Monitor Controller Company. (See Whittingham, George H., assignor.)
- Moody, Joseph F., Ranger, Tex. Gripping device. No. 1,422,289; July 11.
- Moore, Lodie D., Newtonville, Mass. Bucket for handling loose materials. No. 1,422,601; July 11.
- Moriarty, Daniel, Oakland, Calif. Tire casing. No. 1,422,290; July 11.
- Morrell, Glenn A., assignor of one-half to C. W. Rodgers, Seattle, Wash. Fireplace damper. No. 1,422,465; July 11.
- Morris, Ray, Niagara Falls, N. Y. Windmill. No. 1,422,602; July 11.
- Morrison, James, assignor to The Trailmobile Company, Cincinnati, Ohio. Rolling kitchen. No. 1,422,603; July 11.
- Morse, John M., Syracuse, N. Y. Muffler cut-out. No. 1,422,466; July 11.
- Mower, Edward B., assignor to The Futurist Company, Chicago, Ill. Undergarment. No. 1,422,604; July 11.
- Muir, Wm., and Company. (See Melloy, J. H., and Owen, assignors.)
- Mulherin, James A., assignor of one-third to H. D. Delkeskamp, St. Louis, Mo. Bath spray. No. 1,422,291; July 11.
- Murphy, Walter P. (See Murray, George E., assignor.)
- Murray, Alexander, assignor to The Marietta Paint & Color Company, Marietta, Ohio. Stain composition. No. 1,422,292; July 11.
- Murray, Charles F., Evanston, Ill. Automobile lock. No. 1,422,221; July 11.
- Murray, George E., Battle Creek, Mich., assignor to W. P. Murphy, Chicago, Ill. Car-coupling release rigging. No. 1,422,293; July 11.
- Myers, Chester N., Valley Falls, assignor to H. A. Metz, New York, N. Y. Complex arseno-stibino compounds and making the same. No. 1,422,294; July 11.
- Napolitan, Francis J., Jersey City, N. J., assignor to American Abrasive Metals Company. Plate for use in lining burglar-proof vaults and similar purposes. No. 1,422,295; July 11.
- Nasmith, John I. (See Buckham, G. T., and Nasmith.)
- National Aniline & Chemical Company. (See Cunningham, Orin D., assignor.)
- National Fireworks Manufacturing Company, The. (See Van Doren, John B., assignor.)
- National Lock Company. (See Johnson, D. E., and Madsen, assignors.)
- National Pneumatic Company. (See Forman, Paris R., assignor.)
- Needham, William H., assignor to Boston Pressed Metal Co., Worcester, Mass. Press-feeding mechanism. No. 1,422,605; July 11.
- Neiman, Edna A., Brooklyn, N. Y. Container. No. 1,422,606; July 11.
- Nelson, John, Bridgeport, Conn. Doorknob lock. No. 1,422,467; July 11.
- Nelson, John A., Charleston, S. C. Fuse. No. 1,422,122; July 11.
- Newton, Richard T., New York, N. Y. Bumper bracket. No. 1,422,777; July 11.
- Nicola, Peter, Danville, Pa. Artificial arm. No. 1,422,468; July 11.
- Niles-Bement-Pond Company. (See Greenleaf, G. E., and Randolph, assignors.)
- Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
- Nonnenmann, Adolf, New York, N. Y. Pin. No. 1,422,607; July 11.
- Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Diastock. No. 1,422,222; July 11.
- Nord, Carl V., Seattle, Wash. Lubricating device for automobiles. No. 1,422,608; July 11.
- Norgren, Gustavus, Centerville, S. D. Corn-husking machine. No. 1,422,609; July 11.
- Northwest Engineering Company. (See Burke, Paul, assignor.)
- O'Brien, Joseph J., Springfield, Mass. Retaining clip. No. 1,422,610; July 11.
- O'Connell, William, Cincinnati, Ohio. Two-in-one rubber tire. No. 1,422,123; July 11.
- Oertli, Caspar. (See Oertli, Lucy and C., and Turnell.)
- Oertli, Lucy, and C., Hamilton, Mont., and H. Turnell, Elm Creek, Nebr. Automatic haystacker. No. 1,422,611; July 11.
- Ogden, John B., Lynchburg, Va. Record cabinet for talking machines. No. 1,422,612; July 11.
- Ogden, John B., Lynchburg, Va. Convertible stand and table. No. 1,422,613; July 11.
- Ogden, J. Edward. (See Tomkinson, Charles C., assignor.)
- Oliver Whyte Co. (See Jordan, Thomas E., assignor.)
- Olivier, Maurice G., assignor to Societe Francaise de Crins Artificiels, Paris, France. Producing molded articles of pure cellulose. No. 1,422,469; July 11.
- Opitz, William H., Fort Wayne, Ind. Dispensing tank. No. 1,422,124; July 11.
- Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Inductive-interference-suppression device. No. 1,422,470; July 11.
- Ottolini, Cyril, Calistoga, Calif. Fort disappearing gun. No. 1,422,296; July 11.
- Outlook Company, The. (See Williams, John H., assignor.)
- Owens, Richard L., Minneapolis, Minn. Grain-feeding spreader. No. 1,422,297; July 11.
- Owens, Richard L., Minneapolis, Minn. Grain separator. No. 1,422,298; July 11.
- Owens, Richard L., Minneapolis, Minn. Grain separator. No. 1,422,299; July 11.
- Owen, Willie. (See Melloy, J. H., and Owen.)
- Pacific Fire Extinguisher Company. (See Reid, Henry C., assignor.)
- Packard Motor Car Company. (See Church, Harold D., assignor.)

- Packard Motor Car Company. (See Dewey, Frank H., assignor.)
- Packard Motor Car Company. (See Druar, Frank J., assignor.)
- Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
- Page, Edwin L., Kingsley, Iowa. Core for making ventilated blocks. No. 1,422,370; July 11.
- Page, Edwin L., Kingsley, Iowa. Ventilated corner-floor mold. No. 1,422,371; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,614; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,615; July 11.
- Page, Frederick H., assignor to Handley Page Limited, London, England. Means for balancing and regulating the lift of aircraft. No. 1,422,616; July 11.
- Palmer, Dennis J. (See Woods, J. D., and Palmer.)
- Pape, Amand, Willow Springs, Ill. Apparatus for sealing boxes. No. 1,422,300; July 11.
- Pardee, Harvey S., assignor to Miller & Pardee, Inc., Chicago, Ill. Locking cap for automobile radiators. No. 1,422,372; July 11.
- Parker, Calvert, Keene, N. H. Banjo structure. No. 1,422,769; July 11.
- Parker, Clark, deceased, Baulkham Hills, New South Wales, Australia; E. Parker, administratrix. Post for wire fencing. No. 1,422,301; July 11.
- Parker, Ethel, administratrix. (See Parker, Clark.)
- Parker, Howard, assignor to Brown Company, Berlin, N. H. Pipe wrench. No. 1,422,302; July 11.
- Parsley, George T., Ashland, Oreg. Combined wrench. No. 1,422,471; July 11.
- Pathe Exchange Inc. (See Chanier, Gaston L., assignor.)
- Pearcy, Walter T., New Albany, Ind. Silencer. No. 1,422,373; July 11.
- Pearless Rubber Manufacturing Company. (See Kent, William J., assignor.)
- Pehrson, Alfred K., assignor to Pressed Steel Car Company, Pittsburgh, Pa. Release and take-up device for brakes. No. 1,422,125; July 11.
- Penick & Ford, Ltd. (See Allen, Paul W., assignor.)
- Pennsylvania Crusher Company. (See Hartman, William H., assignor.)
- Penrod, William A., Dayton, Ohio. Cooker and boiler. No. 1,422,472; July 11.
- Perony, Jean A., St.-Ouen, France, assignor to Societe d'Outillage Mecanique et d'Usinage d'Artilerie, St.-Ouen, France. Plate-bending press. No. 1,422,779; July 11.
- Persichino, Michael. (See D'Andrea, Nicola, assignor.)
- Petcher, Edward C., St. Louis, Mo. Atomizer. No. 1,422,778; July 11.
- Petersen, Paul W., Chicago, Ill. Method and apparatus for handling combustibles. No. 1,422,126; July 11.
- Petersen, Valdemar, St. Ansgar, Iowa. Wire-fence fastener. No. 1,422,127; July 11.
- Peterson, S. D. (See Schumacher, H. J., and Rice, assignors.)
- Peyton, Joseph I. (See Hitt, S. E., and Peyton.)
- Phelps, Henry C., and J. C. Fox, Glendale, Calif. Antislip spring for piston rings. No. 1,422,780; July 11.
- Phelps, Joseph, North Caldwell, N. J., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. No. 1,422,617; July 11.
- Phelps, Philip M. M. (See Mahar, G. M., and Phelps.)
- Phillips, Ellis J. G., assignor to Richards-Wilcox Manufacturing Company, Aurora, Ill. Means for securing overhead tracks in place. No. 1,422,473; July 11.
- Phillips, Joan C., Wellesley Hills, Mass. Nursing-bottle holder. No. 1,422,223; July 11.
- Pickering, Orien B., Endicott, N. Y. Stamp. No. 1,422,474; July 11.
- Pickston, William T. (See Brown, W. D. R., and Pickston.)
- Pinnock-Bailey, Dr. Vivian. (See Hollis, William H., assignor.)
- Piquet, Jean J. (See Hardy, W. B., and Piquet.)
- Pneumatic Cushion Co. (See Gruss, Lucien R., assignor.)
- Pomilio, Alessandro, New York, N. Y. Bassinet. No. 1,422,619; July 11.
- Pollak, Fritz, Vienna, Austria. Distilling process. No. 1,422,475; July 11.
- Pollard, Gurdon T., and O. H. Johnson, assignors to The Mine & Smelter Supply Company, Denver, Colo. Drum feeder. No. 1,422,618; July 11.
- Pool, Arthur F., Kenilworth, Ill. Speed indicator for aeroplanes. No. 1,422,224; July 11.
- Post, Max, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Ophthalmic test-lens frame. No. 1,422,303; July 11.
- Powell, Archibald D., Braintree, England. Lifting jack. No. 1,422,781; July 11.
- Power, Dudley F., assignor of one-third to E. P. Babcock and one-third to F. Delano, Portland, Oreg. Dehydrator or drier. No. 1,422,620; July 11.
- Powers, George B., Superior, Wis. Tree holder. No. 1,422,304; July 11.
- Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Clearance valve for compressors. No. 1,422,476; July 11.
- Pressed Steel Car Company. (See Pehrson, Alfred K., assignor.)
- Prevost, Arthur A., Detroit, Mich. Wrench. No. 1,422,621; July 11.
- Products Protection Corporation, The. (See Smith, Franklin S., assignor.)
- Production Meter Company. (See Johnson, Austin C., assignor.)
- Progress Manufacturing Company. (See Stahl, Gustav H., assignor.)
- Pullman, George, New York, N. Y. Time recorder. No. 1,422,477; July 11.
- Radium Chemical Company. (See Cameron, William H., assignor.)
- Rager, Harvey W., Ponca, Nebr. Harness hook. No. 1,422,128; July 11.
- Rambo, Joseph F., Pomona, Calif., assignor of one-half to R. A. Schmitt, San Diego, Calif. Conduit coupling. No. 1,422,374; July 11.
- Randolph, Clifford F. (See Greenleaf, G. E., and Randolph.)
- Rattan, Carrie S., San Francisco, Calif. Garment hanger. No. 1,422,782; July 11.
- Redford, John E. (See Wahlert, H. A., and Redford.)
- Reed, Forrest C. (See Hoffman, P., and Reed.)
- Rees, Gordon, East New Annan, Nova Scotia, Canada. Handle for blacksmiths' vises. No. 1,422,478; July 11.
- Reeves, Alex., Atlanta, Ga. Door check. No. 1,422,783; July 11.
- Reid, Henry C., assignor to Pacific Fire Extinguisher Company, San Francisco, Calif. Tractor. No. 1,422,375; July 11.
- Remington Typewriter Company. (See Phelps, Joseph, assignor.)
- Remy Electric Company, The. (See Kennington, William O., assignor.) (Reissue.)
- Rense, Joseph C., Libertyville, Ill. Traction coupling. No. 1,422,129; July 11.
- Reynolds, Robert W., Darlinghurst, near Sydney, New South Wales, Australia. Electrical heater resistance element. No. 1,422,130; July 11.
- Rice, Frank. (See Schumacher, H. J., and Rice.)
- Richards, George M., Philadelphia, Pa. Multistage unloader. No. 1,422,376; July 11.
- Richards-Wilcox Manufacturing Company. (See Phillips, Ellis J. G., assignor.)
- Richter, Johannes, Niederlossnitz, near Dresden, Germany. Ribbon attachment for stringed instruments. No. 1,422,784; July 11.
- Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Film-winding mechanism for cameras. No. 1,422,131; July 11.
- Riddle, Robert D., Spartanburg, S. C. Undercasing for motor-vehicle engines. No. 1,422,622; July 11.
- Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip guiding and controlling attachment for sewing machines. No. 1,422,808; July 11.
- Roberts, Herbert L., assignor to Business Systems, Limited, Toronto, Ontario, Canada. Autographic register. No. 1,422,132; July 11.
- Robider, William J., Westmount, Quebec, Canada. Grain car. No. 1,422,133; July 11.
- Robinson, Neal M., Kansas City, Kans. Vehicle wheel. No. 1,422,479; July 11.
- Robinson, Richard E., Kansas City, Mo. Automobile hood. No. 1,422,305; July 11.
- Robnett, Curtis, Columbia, Mo. Tractor cleat. No. 1,422,377; July 11.
- Rodgers, Charles W. (See Morrell, Glenn A., assignor.)
- Rodhe, Olof, assignor to Aktiebolaget Ingenjorsfirma Fritz Egnell, Stockholm, Sweden. Gas-analyzing apparatus. (Reissue.) No. 15,409; July 11.
- Rodman, Thomas H., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor controller. No. 1,422,134; July 11.
- Rodriguez Serra, José E., Ponce, P. R. Film holder. No. 1,422,785; July 11.
- Roga, William B., assignor to Farmers Standard Carbide Co., Plattsburg, N. Y. Manufacturing calcium carbide. No. 1,422,135; July 11.
- Rogers, George L., assignor to Henry Disston & Sons, Incorporated, Philadelphia, Pa. Shears. No. 1,422,786; July 11.
- Rope, Arthur E., Brooklyn, N. Y. Combination face brush. No. 1,422,787; July 11.
- Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Matrix manufacture. No. 1,422,136; July 11.
- Rousseau, Joseph L., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Manufacturing matrices. No. 1,422,137; July 11.
- Roy, Wilfrid J. (See Thompson, W., and Roy.)
- Runnels, Walter S., Kalamazoo, Mich. Radiator cover. No. 1,422,306; July 11.
- Runyan, Clarence, Aurora, Ind. Comb cleaner. No. 1,422,788; July 11.
- Rutherford, John E., Toronto, Ontario, Canada. Vehicle license-number holder and illuminator. No. 1,422,480; July 11.
- Ryan, Michael W., and M. Utteendorfer, Seattle, Wash. Radiometer. No. 1,422,378; July 11.

- Ryder, Ely M. T., Yonkers, N. Y. Welded rail joint. No. 1,422,623; July 11.
- Ryon, Eppa H., Waltham, Mass. Valve mechanism for gas engines. No. 1,422,138; July 11.
- Sandman, August G., Baltimore, Md. Hatch cover for refrigerator cars. No. 1,422,139; July 11.
- Salto, Salvatore, Milan, Italy. Projecting device for beams of light. No. 1,422,307; July 11.
- Sauer, George A., assignor to Buckeye Iron & Brass Works, Dayton, Ohio. Oil press. No. 1,422,225; July 11.
- Sawyer, Frederick L. (See Berger, Christian, assignor.)
- Schenkel, Moritz, and J. Jüst, Charlottenburg, near Berlin, assignors to Siemens-Schuckert-Werke, G. m. b. H., Berlin, Germany. Electric vacuum apparatus. No. 1,422,481; July 11.
- Schey, Max, Brooklyn, N. Y. Heating element. No. 1,422,379; July 11.
- Schilling, Le Roy C. (See Haugh, T. M., Schilling, and Finch.)
- Schleicher, John A., assignor to The Lufkin Rule Company, Saginaw, Mich. Combined friction and spanner wrench. No. 1,422,308; July 11.
- Schlinglof, Frank C., assignor to The Corona Manufacturing Company, Kenton, Ohio. Poultry roost. No. 1,422,624; July 11.
- Schloth, Arthur C. and H. E., Lynn, Mass. Toy. No. 1,422,789; July 11.
- Schloth, Herman E. (See Schloth, Arthur C. and H. E.)
- Schmitt, Robert A. (See Rambo, Joseph F., assignor.)
- Schneider & Cie. (See Schneider, Eugène, assignor.)
- Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Tractor having four steering driving wheels. No. 1,422,380; July 11.
- Schoff, Joseph F., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Chain. No. 1,422,790; July 11.
- Schriber, George F., Long Beach, Calif. Metal-sheathed pneumatic tire for vehicles. No. 1,422,791; July 11.
- Schuette, August E., Red Bud, Ill., assignor to Central Manufacturing Company, St. Louis, Mo. Gearing. No. 1,422,792; July 11.
- Schuette, Johann, Zeesen-Koenigs-Wusterhausen, near Berlin, Germany, assignor, by mesne assignments, to American Investigation Corporation, New York, N. Y. Device for inserting rivets. No. 1,422,381; July 11.
- Schultz, Abraham J., Newark, N. J. Expandible attaching means for connecting tubular elements. No. 1,422,227; July 11.
- Schultz, Abraham J., Newark, N. J., assignor to Colonial Stamping Company, Inc. Mounting naps or caps for posts, poles, or rods. No. 1,422,226; July 11.
- Schultz, Adolf J., Kansas City, Mo. Batter pitcher. No. 1,422,382; July 11.
- Schultz, Herman F. C. and F. W., Youngstown, Ohio. Fastening device. No. 1,422,482; July 11.
- Schultz, Fred W. (See Schultz, Herman F. C. and F. W.)
- Schumacher, Earl E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plastic composition. No. 1,422,483; July 11.
- Schumacher, Henry J., and F. Rice, Meadville, assignor of one-third to S. D. Peterson, New Castle, Pa. Game device. No. 1,422,383; July 11.
- Schurr, Charles H., and E. J. Lees, assignors to The Lees-Bradner Co., Cleveland, Ohio. Thread-milling machine. (Reissue.) No. 15,410; July 11.
- Schwartz, Carl, New Rochelle, assignor to Vapor Car Heating Company, Inc., New York, N. Y. Electrical control apparatus. No. 1,422,625; July 11.
- Schweinsberg, George W., and M. I. Doyle, Brooklyn, N. Y., assignors to U. S. Electroalloying Company. Apparatus for cleaning articles. No. 1,422,309; July 11.
- Schweitzer, Edmund O., Chicago, Ill. Means for controlling and measuring a current flowing in an alternating-current circuit. No. 1,422,484; July 11.
- Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Car-wheel-boring machine. No. 1,422,140; July 11.
- Self Lay Block & Machine Company. (See Emery, Harvey L., assignor.)
- Shaffer, Patrick H., assignor of one-half to W. L. Thomas, Richmond, W. Va. Logging hook. No. 1,422,228; July 11.
- Shafer, Samuel, Jr. (See Fraser, D., Shafer, and Levalley.)
- Shank, Lewis H., Paradise, Pa. Fruit-jar holder. No. 1,422,626; July 11.
- Shannon, Ellwood M., Rala, assignor to The Baldwin Locomotive Works, Philadelphia, Pa. Equalizing gear for locomotives. No. 1,422,793; July 11.
- Sharp, John, Oakmont, assignor to Aluminum Seal Company, New Kensington, Pa. Feeding mechanism. No. 1,422,229; July 11.
- Shaw, James, Toronto, Ontario, Canada. Phonograph. No. 1,422,310; July 11.
- Shaw, John C., Pretoria, Transvaal, South Africa. Chilling and freezing animal substances. No. 1,422,627; July 11.
- Shaw, John C., Pretoria, Transvaal, South Africa. Apparatus or plant for chilling and freezing animal substances. No. 1,422,628; July 11.
- Sheehan, Walter H., Steubenville, Ohio. Combined head-light and direction indicator. No. 1,422,629; July 11.
- Shepherd, Harry, Coventry, England. Power indicator for internal-combustion engines. No. 1,422,485; July 11.
- Sherwood, Carlyle J., assignor to Coen Co., San Francisco, Calif. Automatic draft regulator. No. 1,422,311; July 11.
- Sherwood, Ludlow S., Chicago, Ill. Saw-filing machine. No. 1,422,486; July 11.
- Shuford, Stephen W., Woodlawn, N. C. Weighing mechanism. No. 1,422,141; July 11.
- Siebert, Adolph G. (See Kropf, Walter R., assignor.)
- Siemens & Halske A. G. (See Mansel, Paul, assignor.)
- Siemens-Schuckert-Werke G. m. b. H. (See Schenkel, M., and Jüst, assignors.)
- Singer Manufacturing Company, The. (See Becker, Rudolph.)
- Singer Manufacturing Company, The. (See Ringe, John C., assignor.)
- Small, Thomas W., Cleveland, Ohio. Telephone attachment. No. 1,422,487; July 11.
- Smart, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Handle. No. 1,422,630; July 11.
- Smith, Ernest K., San Francisco, Calif. Dental impression tray. No. 1,422,488; July 11.
- Smith, Franklin H. (See Doty, L. E., and Smith.)
- Smith, Franklin S., Philadelphia, Pa., assignor to The Products Protection Corporation, New York, N. Y. Electric condenser. No. 1,422,312; July 11.
- Smith, Frederick A., Brasted, England. Ignition device for internal-combustion engines. No. 1,422,794; July 11.
- Smith, George W., Chicago, Ill. Memorandum-pad stand and pad sheets. No. 1,422,489; July 11.
- Smith, Harry N., assignor to Watertown Table Slide Company, Watertown, Wis. Extension-table slide. No. 1,422,142; July 11.
- Smith, Hugh B., University Place, Nebr. Folding table. No. 1,422,313; July 11.
- Snadecki, William J., Bridgeport, Conn., assignor to R. Crane, Washington, D. C. Internal-combustion engine. No. 1,422,143; July 11.
- Snyder, Frank B., South Altoona, Pa. Auxiliary propelling means for motor vehicles. No. 1,422,795; July 11.
- Societe Anonyme de Commentry, Fourchambault & Decazeville. (See Girin, Pierre, assignor.)
- Societe Anonyme Pour L'Exploitation Des Procèdes Westinghouse Leblanc. (See Leblanc, Maurice C. A., assignor.)
- Societe des Etablissements Malicet & Blin. (See Guillery, René, assignor.)
- Societe d'Outillage Mecanique et d'Usinage d'Artillerie. (See Perony, Jean A., assignor.)
- Societe Francaise de Crins Artificiels. (See Olivier, Maurice G., assignor.)
- Soule, George C., and J. B. Woodbury, South Portland, Me. Making wire-rope clamp clips. No. 1,422,314; July 11.
- South, Mahlon C., assignor of one-third to C. M. Garrison, Cincinnati, Ohio. Power propulsion device. No. 1,422,384; July 11.
- Sowden, Albert B., Covington, Ky. Positive both-wheel-drive differential. No. 1,422,144; July 11.
- Spencer, William H., assignor to I. P. Frink, Inc., New York, N. Y. Lighting-accessory suspension. No. 1,422,796; July 11.
- Sperry, Charles F., Chicago, Ill. Radiator for motor vehicles. No. 1,422,315; July 11.
- Spiller, Gilbert E. H., Eaglehurst, Chagford, England. Guard for circular saws. No. 1,422,316; July 11.
- Springfield Metallic Casket Company, The. (See Watts, Thomas A., assignor.)
- Stader, Otto, Oconomowoc, Wis. Veterinary surgical instruments. No. 1,422,490; July 11.
- Stafford, Alfred E., assignor to Draper Corporation, Hopedale, Mass. Filling-end clearer for filling-replenishing looms. No. 1,422,727; July 11.
- Stafford, Ion A., Jamestown, N. Y. Desk-drawer lock. No. 1,422,631; July 11.
- Stahl, Gustav H., Menomonee, Wis., assignor to Progress Manufacturing Company, Erie, Pa. Tool holder. No. 1,422,491; July 11.
- Stalberg, Sven, Nahant, Mass., assignor to General Electric Company. Focusing mechanism for projectors. No. 1,422,385; July 11.
- Standard Conveyor Company. (See Donaldson, William T., assignor.)
- Standard Oil Company. (See Lebo, Robert B., assignor.)
- Standard Parts Company, The. (See Butcher, Harry E., assignor.)
- Standard Parts Company, The. (See Jobski, Otto H., assignor.)
- Standard Parts Company, The. (See Zimmermann, Thomas, assignor.)
- Standard Steel and Bearings Incorporated. (See Woodrow, Irvin F., assignor.)
- Stanzier, Bertha, administratrix. (See Stangier, Joseph C.)
- Stangier, Joseph C., deceased, Chicago, Ill.; B. Stangier, administratrix. Electromagnetic measuring apparatus. No. 1,422,317; July 11.
- Stankovich, Bozo, San Francisco, Calif. Sieve shaker. No. 1,422,230; July 11.
- Stanley, James, New York, N. Y. Combined level, plumb, square, and measure. No. 1,422,231; July 11.
- Stanley, Richard E., Sr., Pittsburgh, Pa. Means for making cast bowling pins. No. 1,422,232; July 11.

- Stark, John R., assignor to Webster Electric Company, Racine, Wis. Armature for magneto machines. No. 1,422,145; July 11.
- Starr, Edward B., and H. E. Marsh, Lompoc, Calif. Apparatus for sawing natural deposits. No. 1,422,386; July 11.
- Stay-Rite Mfg. Co. (See Brooks, Lloyd B., assignor.)
- Steadworthy, Henry. (See Cooper, F. W., and Steadworthy.)
- Steenburg, Walter C. (See Bonson, Walter, assignor.)
- Stendel, Roy, Magdalena, N. Mex. Guard for motor cycles. No. 1,422,632; July 11.
- Stern, Louis J., Boston, Mass. Package for snap fasteners. No. 1,422,233; July 11.
- Sterrett, Frank O., Rochester, Nev. Counterbalance for the crank shafts of internal-combustion engines. No. 1,422,633; July 11.
- Stevens, Sidney, Millinocket, Me. Automatic switch for circuits of internal-combustion engines. No. 1,422,318; July 11.
- Stevens, William H., Hollidaysburg, Pa. Tool handle. No. 1,422,387; July 11.
- Stickel, Frederick, Chicago, Ill. Combined valve and piston. No. 1,422,234; July 11.
- Stimpson, Edward S., assignor to Draper Corporation, Hopedale, Mass. Filling-end-withdrawing means for web-replenishing looms. No. 1,422,728; July 11.
- St. Joseph Iron Works. (See Eklund, John G., assignor.)
- Stoll, Frank M., Denver, Colo. Folding camp chair. No. 1,422,319; July 11.
- Stoll, Frank M., Denver, Colo. Portable folding bed. No. 1,422,320; July 11.
- Stout, James M., Seattle, Wash. Maturity calendar. No. 1,422,235; July 11.
- Stuart, Francis L., New York, N. Y. Conveyer. No. 1,422,492; July 11.
- Stuart, Francis L., New York, N. Y. System of conveying and delivering material to carriers. No. 1,422,493; July 11.
- Sturgis Steel Go-Cart Company. (See Lindberg, Charles A., assignor.)
- Sullivan, Charles L., Chicago, Ill., and J. D. Fletcher, Evansville, Ind. Paving block. No. 1,422,193; July 11.
- Sumbulan, Sarkis H., Fresno, Calif. Automobile fender. No. 1,422,388; July 11.
- Summers, Leland L., Chicago, Ill. Retort. No. 1,422,634; July 11.
- Sutherland, Enos E., Los Angeles, Calif. Collapsible crate. No. 1,422,797; July 11.
- Swain, Hadwen, San Francisco, Calif. Automatic phonograph. No. 1,422,321; July 11.
- Swain, Seth R., East Orange, N. J. Pulley. No. 1,422,389; July 11.
- Swan, John, Jr., Marietta, Ohio. Underreamer. No. 1,422,236; July 11.
- Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,422,237; July 11.
- Swebilius, Carl G., assignor, by mesne assignments, to The Marlin Firearms Corporation, New Haven, Conn. Firearm. No. 1,422,238; July 11.
- Swingle, Charles W., Chicago, Ill. Flash light. No. 1,422,239; July 11.
- Symington, T. H., Company, The. (See Anderson, Gustaf A., assignor.)
- Tackenberg, William, Cincinnati, Ohio. Building block. No. 1,422,146; July 11.
- Tanberg, Arthur P., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Manufacturing diphenylamine. No. 1,422,494; July 11.
- Taylor, Arthur O. S., Billings, Mont. Grinding mechanism. No. 1,422,635; July 11.
- Taylor, Edward C., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Treating rubber articles. No. 1,422,147; July 11.
- Taylor, Samuel, and F. Jarry, New Bedford, Mass. Tension device for spooling machines. No. 1,422,240; July 11.
- Taylor, Samuel. (See Jarry, Frederick, assignor.)
- Teagle Company, The. (See Le Pontois, Leon J., assignor.)
- Texas Company, The. (See Hall, Frank W., assignor.)
- Thiele, Alfred, Magdeburg, Germany, assignor to Firm of Emmy Thiele, Berlin, Germany. Repairing patch for pneumatic tires. No. 1,422,495; July 11.
- Thiele, Firm of Emmy. (See Thiele, Alfred, assignor.)
- Thomas, Walter, Nanaimo, British Columbia, Canada. Disintegrating carbonaceous material. No. 1,422,496; July 11.
- Thomas, Wellington L. (See Shaffer, Patrick H., assignor.)
- Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Can-discharge device. No. 1,422,798; July 11.
- Thompson, Frank E., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Pin-tumbler lock. No. 1,422,497; July 11.
- Thompson, William, and W. J. Roy, Springfield, Mass., assignors to Consolidated Tool Works, Inc., New York, N. Y. Drive for drills and similar tools. No. 1,422,322; July 11.
- Timm, Otto F., Wilson Creek, Wash. Bushing inserter or remover. No. 1,422,390; July 11.
- Tisch, George C. L., Elizabeth, N. J. Combination plate and thread guide. No. 1,422,799; July 11.
- Tobias, William L., assignor to J. W. McNab, Toronto, Ontario, Canada. Steering wheel. No. 1,422,323; July 11.
- Tomlinson, Charles H., assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio. Electric multiple connection plug. No. 1,422,241; July 11.
- Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
- Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountville, Cornwall, N. Y. Concrete insert. No. 1,422,636; July 11.
- Tonkin, Arthur S., Lyndhurst Road, Hastings, assignor of one-half to I. B. Logan, Napier, New Zealand. Paper fastener. No. 1,422,148; July 11.
- Trailmobile Company, The. (See Morrison, James, assignor.)
- Trimble, E. M., Manufacturing Company. (See Baxter, William C., assignor.)
- Troege, John F. R., assignor, by mesne assignments, to American Lux Products Corporation, New York, N. Y. Screen for motion pictures. No. 1,422,149; July 11.
- Triumph Electric Company, The. (See Lebovici, Justin, assignor.)
- Trullinger, Daniel N., and L. A. Granger, Fresno, Calif. Apparatus for forming concrete pipes. No. 1,422,150; July 11.
- Trust, Henry. (See Trust, Josephine and H.)
- Trust, Josephine and H., Park Ridge, N. J., assignors, by mesne assignments, to Meteor Mixing Machine Co., Inc. Ford machine. No. 1,422,391; July 11.
- Tucker Brothers Manufacturing Company. (See Tucker, Jesse D., assignor.)
- Tucker, Jesse D., assignor to Tucker Brothers Manufacturing Company, Sacramento, Calif. Spoke-tightening shim. No. 1,422,637; July 11.
- Turnell, Henry. (See Oertli, Lucy and C., and Turnell.)
- Ungar, Gustav A., Pelham Manor, N. Y. Flexible coupling. No. 1,422,638; July 11.
- Union Carbide Company. (See Curme, George O., Jr., assignor.)
- Union Special Machine Company. (See Chalman, John E., assignor.)
- Union Special Machine Company. (See Moffatt, James R., assignor.)
- United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
- Unit Player Action Co., The. (See Hulder, Joseph P., assignor.)
- U. S. Electrogalvanizing Company. (See Schweinsberg, G. W., and Doyle, assignors.)
- Utten dorfer, Michael. (See Ryan, M. W., and Utten dorfer.)
- Valls, Ricardo O., Barcelona, Spain. Method to render kapok and other fibers incombustible. No. 1,422,242; July 11.
- Valois, Felix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Stop motion for shoe-sewing machines. No. 1,422,639; July 11.
- Valois, Felix E., Haverhill, assignor to Hamel Shoe Machinery Company, Lynn, Mass. Stop motion. No. 1,422,640; July 11.
- Van Cott, Albert, and J. Evans, Salt Lake City, Utah. Sorting machine. No. 1,422,800; July 11.
- Vander Horst, Henry L. (See Billingham, Milton C. J., assignor.)
- Van Doren, John B., Rockland, assignor to The National Fireworks Manufacturing Company, West Hanover, Mass. Toy machine gun. No. 1,422,392; July 11.
- Van Norden, Rudolph W., San Francisco, Calif. Electromagnetic power-transmission apparatus. No. 1,422,243; July 11.
- Vapor Car Heating Company. (See Cooley, Roswell P., assignor.)
- Vapor Car Heating Company. (See Schwartz, Carl, assignor.)
- Verner, Eyvind M., et al. (See Anderson, Albin E., assignor.)
- Vickers Limited. (See Buckham, G. T., and Nasmith, assignors.)
- Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
- Vigier, Marcel. (See Laurency, G. C., and Vigier.)
- Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Vibration damper for hydrocarbon motors. No. 1,422,324; July 11.
- Vint, William J., Stockton, Calif. Camping trailer. No. 1,422,498; July 11.
- Waddell, John M., Alexandria, La. Dimmer. No. 1,422,393; July 11.
- Wagner, Rudolf, Hamburg, Germany. Suspended high-speed railway. No. 1,422,394; July 11.
- Wahlert, Henry A., St. Louis, and J. E. Redford, Kinlock Park, assignors to The American Brake Company, St. Louis, Mo. Automatic slack adjuster. No. 1,422,499; July 11.
- Waldorf Paper Products Company. (See Gamm, Charles C., assignor.)
- Walker, Alan C. (See Bilger, W. A., and Walker.)
- Walker Brothers (Wigan) Limited. (See Walker, Edwin R., assignor.)
- Walker, Edwin R., assignor to Walker Brothers (Wigan) Limited, Wigan, England. Motor tip wagon. No. 1,422,500; July 11.
- Walker, Henry B., Lancaster, Ohio. Chain attachment for elevator buckets. No. 1,422,151; July 11.

- Walsh, Edward M., Monroe, Wash. Stamp receiver. No. 1,422,152; July 11.
- Walsh, Philip R. (See Meyer, A., and Walsh.)
- Walters, Charles A., Marion, Iowa. Drafting instrument. No. 1,422,641; July 11.
- Walters, Elizabeth M., Hove, England. Rubber globe. No. 1,422,642; July 11.
- Wappler Electric Co. (See Wappler, Reinhold H., assignor.)
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Co., Inc. Multidisk electric machine. No. 1,422,395; July 11.
- Wappler, Reinhold H., Yonkers, N. Y., assignor to Wappler Electric Company, Inc. Clamp mounting for electrodes. No. 1,422,396; July 11.
- Ward, Edward K. and P. C., St. Paul, Minn. Street sweeper. No. 1,422,501; July 11.
- Ward, Pier C. (See Ward, Edward K. and P. C.)
- Wardell, Robert D., Detroit, Mich. Lighting unit. No. 1,422,244; July 11.
- Wark, William J., Salem, Ohio. Sign and its support. No. 1,422,502; July 11.
- Warminski, Piotr, Baltimore, Md. Aeroplane control. No. 1,422,503; July 11.
- Warren, Herbert A., Woburn, Mass. Truss pad. No. 1,422,153; July 11.
- Warriner Manufacturing Company. (See Elrod, Milton, assignor.)
- Waterhouse, Harold D., Quincy, assignor to Bay State Pump Company, Boston, Mass. Piston. No. 1,422,729; July 11.
- Watertown Table Slide Company. (See Smith, H. N., assignor.)
- Watson, Ernest A., assignor to The M-L Magneto Syndicate Limited, Coventry, England. Dynamo-electric machine. No. 1,422,154; July 11.
- Watson, James, Athens, Pa. Smoker's table. No. 1,422,397; July 11.
- Watts, Alfred E. (See Merritt, F. W., and Watts.)
- Watts, Thomas A., assignor to The Springfield Metallic Casket Company, Springfield, Ohio. Latch. No. 1,422,504; July 11.
- Weaver, Floyd C., Washington, D. C. Grinding and lapping machine. No. 1,422,505; July 11.
- Webster Electric Company. (See Stark, John R., assignor.)
- Weiss, Morris L., Brooklyn, N. Y., assignor to Dovan Chemical Corporation, Wilmington, Del. Making diphenylguanidine. No. 1,422,506; July 11.
- Wells, Harold D., Glens Falls, N. Y. Sulphur-burning apparatus. No. 1,422,801; July 11.
- Wells, John, Cairo, Egypt. Gas producer. No. 1,422,643; July 11.
- Wentz, Jere L., Passaic, N. J. Conveying belt. No. 1,422,398; July 11.
- Wepflo, Isaac W., Chicago, Ill. Tube-closing machine. No. 1,422,644; July 11.
- West, Timothy E., Oakland, Calif. Parcel-post and express chart. No. 1,422,245; July 11.
- Western Electric Company. (See Eaves, Augustus J., assignor.)
- Western Electric Company. (See Kelsay, Le Roy W., assignor.)
- Western Electric Company. (See Schumacher, Earl E., assignor.)
- Wetherholt, William C., Columbus, Ohio. Key-duplicating machine. No. 1,422,155; July 11.
- Wever, Beulah L., Savannah, Ga. Cooking utensil. No. 1,422,156; July 11.
- Wheeler, William I., Scottville, Ill. Power-transmission mechanism. No. 1,422,507; July 11.
- Wheeler, William I., Scottville, Ill. Reversing mechanism. No. 1,422,508; July 11.
- Wheeler, William I., Scottville, Ill. Power-transmission mechanism. No. 1,422,509; July 11.
- Wheeler, William I., Scottville, Ill. Transmission mechanism. No. 1,422,510; July 11.
- Wheelock, Arthur C., Oakland, assignor to American Automatic Lock and Lift Company, San Francisco, Calif. Sash locking and balancing mechanism. No. 1,422,399; July 11.
- Whitaker-Glessner Company. (See Gibbons, Nathan A., assignor.)
- Whitcomb, Frederick L., Clyde, Ohio. Can opener. No. 1,422,400; July 11.
- White, Edward L., Brooklyn, N. Y. Spring heel. No. 1,422,511; July 11.
- White, John W., Detroit, Mich. Differential driving mechanism for motor vehicles. No. 1,422,401; July 11.
- White, John W., Jr., Oakland, Calif. Bronze worm-gear mounting. No. 1,422,512; July 11.
- White, Okey M., and W. C. McCullough, assignors of one-third to A. Mathews, Muskogee, Okla. Wrench. No. 1,422,402; July 11.
- White, William E., Chicago, Ill. Bar-spacing device. No. 1,422,157; July 11.
- Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Muffler. No. 1,422,403; July 11.
- Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Thermal cut-out device. No. 1,422,802; July 11.
- Wiggins, Dallas B. (See McClellan, John, assignor.)
- Williams, Earl J., Geary, Okla. Splicing tool. No. 1,422,803; July 11.
- Williams, John H., East Cleveland, Ohio, assignor to The Outlook Company, Cleveland, Ohio. Means for connecting two elements. No. 1,422,158; July 11.
- Williams, William A. (See Coxon, S., and Williams.)
- Wilmort Manufacturing Company. (See Humphreys, William, assignor.)
- Wilson, James O., Jersey City, N. J. Permutation lock. No. 1,422,645; July 11.
- Wingers, Harry A. (See Blanton, John B., assignor.)
- Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Washer-placing apparatus. No. 1,422,159; July 11.
- Winters, George D., Sanger, Calif. Antiskid device. No. 1,422,646; July 11.
- Wisconsin Trust Company et al., executors. (See Fraser, D., Shafer, and Levalley.)
- Wise, Wilbert G., Akron, Ohio. Furnace construction. No. 1,422,160; July 11.
- Witte, Walter L., Escondido, Calif. Rope tightener. No. 1,422,804; July 11.
- Wochna, Matthew J. (See Cullen, B. P., and Wochna.)
- Woodbury, John B. (See Soule, G. C., and Woodbury.)
- Wood, Evans, Tuttle, Idaho. Water tank. No. 1,422,325; July 11.
- Wood, Montraville M., Berwyn, Ill. Portable truck. No. 1,422,730; July 11.
- Woodrow, Irvin F., Philadelphia, Pa., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Gauge. No. 1,422,161; July 11.
- Woods, John D., and D. J. Palmer, Steubenville, Ohio. Gig. No. 1,422,805; July 11.
- Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
- Yale & Towne Manufacturing Company, The. (See Augenbraun, Peter F., assignor.)
- Yale & Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
- Yale & Towne Manufacturing Company, The. (See Thompson, Frank E., assignor.)
- Yee, Jew Y. (See Guernsey, E. W., and Yee.)
- Zahn, Oswald F., assignor to Zahn Self Righting Roller Bearing Company, Los Angeles, Calif. Roller bearing. No. 1,422,162; July 11.
- Zahn Self Righting Roller Bearing Company. (See Zahn, Oswald F., assignor.)
- Zepka, Ludwig R., Cleveland, Ohio. Theft signal for motor vehicles. No. 1,422,404; July 11.
- Ziler, Corban H., assignor of one-half to Leggett & Platt Spring Bed Company, Limited, Windsor, Ontario, Canada. Machine for assembling frame and spring members. No. 1,422,326; July 11.
- Zimbelmann, Peter, Aurora, Ill. Door check. No. 1,422,163; July 11.
- Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,422,647; July 11.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- American Fabrics Company, The. (See Page, Samuel H., assignor.)
- Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
- Blanck & Company. (See Davis, Elizabeth A., assignor.)
- Blanck & Company. (See Langenegger, John, assignor.)
- Brock and Company. (See Ginder, Wallace G., assignor.)
- Bunde & Upmeyer Co. (See Katke, Thomas C., assignor.)
- Cabalka, Albina, Geddes, S. Dak. Dress fabric. No. 61,186; July 11.
- Cheney Talking Machine Company. (See MacLachlan, Lachlan, assignor.)
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Plate for wall brackets for lighting fixtures. No. 61,188; July 11.
- Dahl, Thure, New York, N. Y., assignor to Lightolier Company. Wall bracket for lighting fixtures. No. 61,187; July 11.
- Davis, Elizabeth A., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 61,189; July 11.
- Dowling, William, assignor to Golding Bros. Company, New York, N. Y. Fabric. No. 61,190; July 11.
- Dyer, Charles B., Indianapolis, Ind. Emblem, badge, brooch, pin, cuff button, watch fob, or article of similar nature. No. 61,191; July 11.
- Emsley, Amos. (See Trustman, Solomon, assignor.)
- Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Grease gun. No. 61,192; July 11.
- Forman Bassett Company, The. (See Kres, Charles, assignor.)
- Forman Bassett Company, The. (See Meyer, Frank, assignor.)
- Gaffney, Richard M., St. Louis, Mo. Combined writing pad and advertising device or article of similar nature. No. 61,193; July 11.
- Ginder, Wallace G., assignor to Brock and Company, Los Angeles, Calif. Ring. No. 61,194; July 11.
- Golding Bros. Company. (See Dowling, William, assignor.)
- Hammond, William P., Maplewood, N. J. Combination mirrorscope, parking light, and direction indicator. No. 61,195; July 11.
- Johnstone, Claude, St. Louis, Mo. Bottle. No. 61,196; July 11.
- Katke, Thomas C., assignor to Bunde & Upmeyer Co., Milwaukee, Wis. Badge, button, charm, emblem, pin, or article of similar nature. No. 61,197; July 11.
- Kerby, Isabella, East Helena, Mont. Pig doll. No. 61,198; July 11.
- Kres, Charles, Cleveland, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,199; July 11.
- Langenegger, John, assignor to Blanck & Company, New York, N. Y. Lace. No. 61,200; July 11.
- Levine, Louis, Brooklyn, N. Y. Lighting-fixture arm. No. 61,201; July 11.
- Lightolier Company. (See Dahl, Thure, assignor.)
- London, Louis B., New York, N. Y. Globe for lighting fixtures. No. 61,202; July 11.
- MacLachlan, Lachlan, Grand Rapids, Mich., assignor to Cheney Talking Machine Company, Chicago, Ill. Phonograph cabinet. No. 61,203; July 11.
- Mann, William L., New York, N. Y. Badge, pin, button, or a similar article of manufacture. No. 61,204; July 11.
- Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,205; July 11.
- Milligan, W. A., and Company. (See Riexinger, Gustav, assignor.)
- National Automobile Dealers' Association. (See Vane, Christy A., assignor.)
- Norquist, Angeline, Minneapolis, Minn. Doll. No. 61,206; July 11.
- Oliver, Cora O., Oklahoma, Okla. Doll. No. 61,207; July 11.
- Ornstein, David, New York, N. Y. Finger ring. No. 61,208; July 11.
- Otte, Otho M., Tarentum, Pa. Light diffuser. Nos. 61,209-10; July 11.
- Page, Samuel H., Stratford, Conn., assignor to The American Fabrics Company, Lace. No. 61,211; July 11.
- Powell, Katharine L., Amherst, Mass. Outer garment. No. 61,212; July 11.
- Riexinger, Gustav, assignor to W. A. Milligan and Company, Limited, Toronto, Ontario, Canada. Sautoir watch holder. No. 61,213; July 11.
- Shenk, Abraham H., Joliet, Ill. Toy. No. 61,214; July 11.
- Taylor, Henry H., Milwaukee, Wis. Parking light. No. 61,215; July 11.
- Trustman, Solomon, assignor of one-half to A. Emsley, Detroit, Mich. Combined phonograph and lamp stand. No. 61,216; July 11.
- Urbanek, Joseph, Chicago, Ill. Combination clock, picture, and mirror frame. No. 61,217; July 11.
- Vane, Christy A., assignor to National Automobile Dealers' Association, St. Louis, Mo. Emblem, sign, badge, button, or article of similar nature. No. 61,218; July 11.
- Whipple, Harry W., Kansas City, Mo. Plaque. No. 61,219; July 11.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- Abel Bros. & Co., New York, N. Y. Certain jewelry. No. 156,606; July 11.
- Acme Shear Company, The Bridgeport, Conn. Scissors and shears. No. 156,605; July 11.
- Ainsworth, George R., New York, N. Y. Electric-lighting fixtures. No. 156,607; July 11.
- American Cotton Oil Company, The, Union Township, Hudson County, N. J. and New York, N. Y. Edible vegetable cottonseed oils. No. 156,608; July 11.
- American Hoist & Derrick Co., St. Paul, Minn. Rope clamps. No. 156,609; July 11.
- American Lady Corset Co., Detroit, Mich. Corsets. No. 156,793; July 11.
- American Laundry Machinery Company, The, Norwood, Ohio. Certain laundry appliances and machines. No. 156,610; July 11.
- American Radio Sales and Service Company, Mansfield, Ohio. Certain appliances for radio mechanism. No. 156,611; July 11.
- American Steel Foundries, Chicago, Ill. Machinery wheels and gears. No. 156,612; July 11.
- American Writing Paper Company, Holyoke, Mass. Wedding paper, announcement cards, and mailing envelopes. No. 156,794; July 11.
- Anderson Company, The, South Bend, Ind. Ignition timers for explosion engines. No. 156,613; July 11.
- Anderson, E. S., Company, Gloversville, N. Y. Vegetable slicers and choppers. No. 156,614; July 11.
- Andrea, Frank A. D., New York, N. Y. Certain radio apparatus. No. 156,615; July 11.
- Associated Cement Manufacturing Limited, The. (See Burham, Brick, Lime and Cement Company, assignor.)
- Atlas Tinware Company, Inc., New York, N. Y. Household washboilers. No. 156,616; July 11.
- Autoquip Mfg. Co., Inc., Rochester, N. Y. Tire pumps and valve grinders. No. 156,617; July 11.
- Baker, H. J., & Bro., New York, N. Y. Canned fruit and salmon and sardines. No. 156,618; July 11.
- Bauman, Max, trading as M. Bauman & Company, New York, N. Y. Finger rings. No. 156,619; July 11.
- Beacon Chocolate Company, Boston, Mass. Chocolate, cocoa, and chocolate candy, and other candies. No. 156,620; July 11.
- Beaver Mach. & Tool Co., Inc., Newark, N. J. Electrical attachment, and switch plugs. No. 156,621; July 11.
- Beich, Paul F., Company, Bloomington, Ill. Candy and caramels. No. 156,622; July 11.
- Berg Bros. Mfg. Company, Chicago, Ill. Spark timers for internal-combustion engines. No. 156,623; July 11.
- Blanchini, Frier, Lyons, France. Piece goods of silk, wool, linen, cotton, and china grass. No. 156,795; July 11.
- Blasdel Products Co. (See Shapleigh, Blasdel.)
- Bloom, Edward Co. Inc., The, New London, Conn., and Paterson, N. J. Silk piece goods. No. 156,798; July 11.
- Blue Bird Malt Co., Baltimore, Md. Malt extract. No. 156,625; July 11.
- Blumenthal, Sidney, & Co., New York, N. Y., assignor to Central Union Trust Company of New York, trustee. Pile fabric in the piece. No. 156,626; July 11.
- Boake, A., Roberts and Company, Ltd. (See Boake, A., Roberts & Co., assignor.)
- Boake, A., Roberts & Co., London, England, assignor to A. Boake, Roberts and Company, Ltd. Preservative for beer. No. 21,782; renewed Sept. 27, 1922.
- Bock-Lewis Co., The, Buffalo, N. Y. Finger rings. No. 156,628; July 11.
- Bodman, Ralph H., Hyannis, Mass. Artificial pearls and necklaces made from same. No. 156,629; July 11.
- Boissonnault, G., Company, New York, N. Y. Telephonic apparatus. Nos. 156,630-1; July 11.
- Botelho, Francis M., trading as Francis M. Botelho Co., Philadelphia, Pa. Pearls, necklaces, and clasps. No. 156,632; July 11.
- Bragno & Mustari, Chicago, Ill. Tomato sauce, canned olives, cotton-seed salad oil. No. 156,633; July 11.
- Bragno & Mustari, Chicago, Ill. Macaroni. No. 156,634; July 11.
- Brown Bag Filling Machine Company, Fitchburg, Mass. Spark plugs. No. 156,635; July 11.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Phonographs and phonograph records. No. 156,636; July 11.
- Brunswick-Balke-Collender Company, The, Wilmington, Del., and Chicago, Ill. Rubber or rubber and fabric tires and tubes for vehicles. No. 156,827; July 11.
- Buckeye Iron and Brass Works, Dayton, Ohio. Oil-mill machinery. No. 156,637; July 11.
- Buonocore, C., & Son, New York, N. Y. Olive oil. No. 156,638; July 11.
- Burham Brick, Lime and Cement Company, The, Burham and London, England, assignor to The Associated Cement Manufacturing Limited. Cement. No. 20,950; renewed Apr. 5, 1922.
- Burlingame Manufacturing Company. (See Burlingame, Roderick S.)
- Burlingame, Roderick S., trading as Burlingame Manufacturing Company, Syracuse, N. Y. Clothes-washing machine. No. 156,639; July 11.
- Butler, J. W., Paper Company, Chicago, Ill. Bond paper for printing, lithographing, pen and ink, etc. No. 156,796; July 11.
- Caulk, L. D., Company, The, Milford, Del. Dental supplies and appliances. No. 156,640; July 11.
- Central Union Trust Company of New York, trustee. (See Blumenthal, Sidney, & Co. Inc., assignor.)
- Champion Machinery Co., Joliet, Ill. Machinery for bakeries. No. 156,641; July 11.
- Chicago Timer Factory Incorporated, Chicago, Ill. Timers for internal-combustion engines. Nos. 156,642-3; July 11.
- Clark, Cadle, Harmon Corp., Rochester, N. Y. Laundry washing machines and wringers. No. 156,644; July 11.
- Clark-Turner Piston Company, Los Angeles, Calif. Pistons for internal-combustion engines. No. 156,645; July 11.
- Clements Mfg. Co., Chicago, Ill. Electric suction sweepers. No. 156,646; July 11.
- Climax Rubber Co., The, Columbus, Ohio. Automobile tires of rubber and of rubberized fabric, inner tubes, liners, and patches. No. 156,647; July 11.
- Coffield Washer Co., The, Dayton, Ohio. Laundry washing machines and clothes wringers. No. 156,648; July 11.
- Cohen & Ettenson, New York, N. Y. Hosiery, knitted and woven underwear, sweaters, overshirts. No. 156,649; July 11.
- Construction Machinery Company, Waterloo, Iowa. Concrete mixers, diaphragm pumps, hoists, backfillers, engines. No. 156,650; July 11.
- Conway, Carle C., Earle E. Conway, and Theodore P. Brown, trustees, trading as Hallet & Davis Piano Co., Boston, Mass. Pianos. No. 156,651; July 11.
- Crabtree, J. A., & Co. Ltd., Birmingham, England. Certain electrical apparatus. No. 156,652; July 11.
- Curtiss Candy Co., Chicago, Ill. Bar containing a fudge body covered first by marshmallow and then icing. No. 156,653; July 11.
- Dayton Ignition Company, The, Dayton, Ohio. Spark plugs. No. 156,654; July 11.
- Dayton Pump & Manufacturing Company, The, Certain named electrical apparatus. No. 156,797; July 11.
- Deere & Company, Moline, Ill., assignor to Deere & Company. Plows. No. 20,974; renewed Apr. 12, 1922.
- De Klyn Candy Co., The, Cleveland, Ohio. Chocolate-coated candies packed in individual cartons. No. 156,655; July 11.
- Detroit Washing Machine Corporation, Detroit, Mich. Laundry washing machines. No. 156,656; July 11.
- Diamond Holfast Company, Atlanta, Ga. Electric insulating tape. No. 156,657; July 11.
- Dolby, L. R., Co., Spokane, Wash. Tailored suits. No. 156,658; July 11.
- Dorr Company, The, New York, N. Y. Pumps for rotating screens for removing solids from industrial and municipal waste. No. 156,659; July 11.
- Economy Food Products Company, Cambridge, Mass. Dried egg, meringue powder, pie filling. No. 156,660; July 11.
- Edison, Thomas A., Incorporated, West Orange, N. J. Phonographs. Nos. 156,661-2; July 11.
- Electric Outlet Company, Inc., New York, N. Y. Wall and ceiling plates and connections for electric-lighting fixtures, etc. No. 156,663; July 11.
- Electrical Engineers Equipment Company, Chicago, Ill. Disconnecting switches, lightning arresters, choke coils. No. 156,664; July 11.
- Elite Chocolate Coated Baseball Company. (See Elite Confectionery Co., assignor.)
- Elite Confectionery Co., assignor to Elite Chocolate Coated Baseball Company, El Paso, Tex. Ice cream. No. 156,665; July 11.
- Emerson Phonograph Company, Inc., New York, N. Y. Phonograph records. No. 156,666; July 11.
- Everett, Edward A., trading as Railroad Accessories Corporation, Long Island City, N. Y. Lightning arresters. No. 156,667; July 11.
- Fairbanks Co., The, New York, N. Y. Steel and stencil pattern outfits, bevels, calipers, etc. No. 156,668; July 11.
- Federal Gauge Company, The, Chicago, Ill. Certain circuit-controlling and pressure-controlling devices and mercury tubes. No. 156,669; July 11.
- Finn, John, Jr. Internally-salted nuts. No. 156,670; July 11.
- Firth, John, & Co., Inc., New York, N. Y. Certain electrical apparatus. No. 156,671; July 11.
- Fischer, J. & C., New York, N. Y. Phonographs. No. 156,672; July 11.

- Forest City Bit & Tool Co., Rockford, Ill. Augers, drills, chisels, bits, etc. No. 156,673; July 11.
- Fox Motor Car Company, Philadelphia, Pa. Internal-combustion engines. No. 156,674; July 11.
- Fruchter, Alton. (See Racille, Roslyn, assignor.)
- Furman, Louis M., Brooklyn, N. Y. Trousers, overcoats, and suits for men and boys. No. 156,799; July 11.
- Goldsmith, Stern and Co., New York, N. Y. Cigar cutters. No. 156,675; July 11.
- Grant, W. T. Company, New York, N. Y. Candy. No. 156,676; July 11.
- Graves, Isabel, Philadelphia, Pa., and Newton, Mass. Jellies, fruit preserves, conserves, and canned fruits. No. 156,677-8; July 11.
- Greenbaum Bros. Inc., Scaford, Del. Tomato catsup, chili sauce, and canned pork and beans. No. 156,679; July 11.
- Grossman, J., & Co. Inc., New York, N. Y. Cotton piece goods. No. 156,800; July 11.
- Grumbacher, Max, New York, N. Y. Artists' brushes. Nos. 156,801-3; July 11.
- Hager, Albert R., Salt Lake City, Utah. Game (played with pieces similar to dominoes). No. 156,680; July 11.
- Hallet & Davis Piano Co. (See Conway, Carle C., et al., trustees.)
- Harraden, Cora L., Schenectady, N. Y. Candy. No. 156,681; July 11.
- Hatmaker & Place, Canaan, Conn. Hydrated lime. Portland cement, and fire clay. No. 156,683; July 11.
- Hemco Electric Manufacturing Company Inc., New York, N. Y. Electric fixtures. Nos. 156,684-5; July 11.
- Hendler Creamery Company, The, Baltimore, Md. Ice cream. Nos. 156,686-7; July 11.
- Hershey Chocolate Company, The, Hershey, Pa. Chocolate, sweet chocolate, and milk chocolate. No. 156,688; July 11.
- Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 156,804; July 11.
- Indiana Lamp Company, Connersville, Ind. Electric vehicle lamps. No. 156,689; July 11.
- Iowa Malleable Iron Company, Fairfield, Iowa. Malleable-iron castings. No. 156,690; July 11.
- Jackson & Gutman Company, Salisbury, Md. Negligee shirts. No. 156,805; July 11.
- Jackson Company, The, Dubuque, Iowa. Prepared mustard, peanut butter, vinegar. No. 156,691; July 11.
- Jewel Tea Company, Inc., Chicago, Ill. Coffee. No. 156,692; July 11.
- Jewett Manufacturing Corporation, Newark, N. J. Apparatus for radiosignaling. No. 156,693; July 11.
- Johnson, William C., Rhode Island. Mercerized shoe laces. No. 156,694; July 11.
- Katz & Ogush, Inc., New York, N. Y. Certain named jewelry. No. 156,695; July 11.
- Kienzle Uhrenfabriken Kommanditgesellschaft, Schwenningen-on-Neckar, Germany. Alarm clocks, alarm watches, and watches. No. 156,696; July 11.
- Kil-Nock Company. (See Rose, John F., assignor.)
- Kohn-Fechheimer Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 156,806; July 11.
- Landers, Fray & Clark, New Britain, Conn. Laundry washing machines. No. 156,697; July 11.
- Larson, Clifford M., Chicago, Ill. Liquid gauges, etc. No. 156,698; July 11.
- Laternman Bros. Co. Inc., Marinette, Wis. Knitting worsted. No. 156,807; July 11.
- Licorice Products Company, Dubuque, Iowa. Candy. No. 156,699; July 11.
- Lincoln Light Corporation, Grafton, Wis. Electric-power-generating units. No. 156,700; July 11.
- Linton & Scott, New York, N. Y. Toilet paper. No. 156,748; July 11.
- Luden, William H., Reading, Pa. Candies and chocolates. No. 156,701; July 11.
- Lund, Florence E., Chicago, Ill. Corsets and brassieres. No. 156,702; July 11.
- Lyon & Healy, Chicago, Ill. Talking machines and music boxes. No. 156,703; July 11.
- McCreery, James, & Company, New York, N. Y. Silk and satin piece goods. No. 156,808; July 11.
- Master Electric Company, The, Dayton, Ohio. Electric motors and parts thereof, short circuiters, etc. No. 156,704; July 11.
- Merkle-Korff Gear Co., Chicago, Ill. Gears. No. 156,705; July 11.
- Metropolitan-Vickers Electrical Company Ltd., London, England. Certain electrical apparatus. No. 156,706; July 11.
- Mettler, E. C., Co., Menno, S. Dak. Vapor-mixing devices for internal-combustion engines. No. 156,707; July 11.
- Millen Candy Co., Inc., Utica, N. Y. Coconut candy. No. 156,708; July 11.
- Millers Falls Company, Millers Falls, Mass. Certain tools and machinery. No. 156,709; July 11.
- Milwaukee Electric Crane & Mfg. Co. Inc., West Allis, Wis. Electric cranes. No. 156,710; July 11.
- Miniature Breaker Co. Inc., Long Island City, N. Y. Starting switches and circuit interrupters. No. 156,711; July 11.
- Mi-O-Mi Inc., New York, N. Y. Canned cherries, crushed pineapple, honey, etc. No. 156,712; July 11.
- Mission Bead Company, Los Angeles, Calif. Bead necklaces. No. 156,713; July 11.
- Modern Light Supply Company. (See Rabinovitz, Joseph.)
- Monaghan, Victor Company, Greenville, S. C. Cotton piece goods. No. 156,822; July 11.
- Morrow, Walter E., Lancaster, Pa. Talking-machine needles. No. 156,714; July 11.
- Musket, W. E., San Francisco, Calif. Fire brick, furnace and baffle tiles, high-temperature cement. Nos. 156,715-6; July 11.
- National Commodities Co., Philadelphia, Pa. Sanitary human-hair nets. No. 156,717; July 11.
- National Knitting Machine Co. Inc., St. Johnsville, N. Y. Warp-knitting machines. No. 156,718; July 11.
- Nevin, W. C., Candy Co., The, Denver, Colo. Candies. No. 156,719; July 11.
- New England Glass Works, Providence, R. I. Imitation pearls. No. 156,720; July 11.
- Nutriline Mfg. Co., Chicago, Ill. Chocolate-coated marshmallow and caramel bar candy. No. 156,721; July 11.
- Omnigraph Company, Des Moines, Iowa. Printing machines and parts of same, paper-cutting machines, etc. No. 156,722; July 11.
- Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric gas-filled lamps. No. 156,723; July 11.
- Osram G. m. b. H. Kommanditgesellschaft, Berlin, Germany. Electric incandescent lamps and their parts. No. 156,724; July 11.
- Ovington Bros. Company, New York, N. Y. Jewelry. No. 156,826; July 11.
- Oyler, Chas. C., & Son, Cincinnati, Ohio. Citrus fruits. No. 156,725; July 11.
- Pace Phonograph Corporation, New York, N. Y. Phonographs, phonograph records, player and manual pianos, organs, and player rolls. No. 156,726; July 11.
- Page, Wilson K., Olean, N. Y. Trolley guards. No. 156,727; July 11.
- Parts Service Company, The, Cleveland, Ohio. Automotive parts. No. 156,728; July 11.
- Patrick-Young Co., Richmond, Va. Hams, bacon, and lard. No. 156,729; July 11.
- Pendleton Woolen Mills, Pendleton, Oreg. Indian blankets, wool in piece for making bath robes, blankets, and shawls, etc. No. 156,730; July 11.
- Place, Rosalie M., Washington, D. C. Gift record books. No. 156,731; July 11.
- Plate, Ernst W., Philadelphia, Pa. Stringed musical instruments and the parts thereof. No. 156,732; July 11.
- Plaza Music Company, New York, N. Y. Phonograph records. No. 156,733; July 11.
- Powell Corporation, The, Canandaigua, N. Y. Vinegar. No. 156,734; July 11.
- Printator, G. m. b. H., Berlin, Germany. Printing machines and parts thereof. No. 156,735; July 11.
- Procter and Gamble Company, The, Cincinnati, Ohio. Cooking fats. No. 156,736; July 11.
- Propp, M. Co., The, New York, N. Y. Electric sockets. No. 156,737; July 11.
- Pugh, Burton H., Topeka, Kans. Windshield sunshades. No. 156,809; July 11.
- Pulver Company Inc., Rochester, N. Y. Chewing gum. No. 156,738; July 11.
- Purcell Company, The, Kansas City, Mo. Stock weaners. No. 156,739; July 11.
- Rabinovitz, Joseph, trading as Modern Light Supply Company, Philadelphia, Pa. Electrical lighting fixtures and supplies. No. 156,740; July 11.
- Racille, Roslyn, New York, N. Y., assignor to A. Fruchter. Ladies' hats. No. 156,810; July 11.
- Railroad Accessories Corporation. (See Everett, Edward A.)
- Rainbow Shirt Corporation, New York, N. Y. Dress and negligee shirts. No. 156,741; July 11.
- Reddaway, F., & Co., Manchester, England, and New York, N. Y., assignor to Rossendale-Reddaway Belting & Hose Company, Woven machine belting. No. 21,346; renewed June 21, 1922.
- Remer-Dell Products Corporation, The, Columbia, S. C. Beverages and sirups for making same. No. 156,682; July 11.
- Robbins, Gamwell & Company, Pittsfield, Mass. Electric pipe machines. No. 156,742; July 11.
- Rogers Construction Company, Gloucester City, N. J. Certain toys. No. 156,743; July 11.
- Roggen Bros. & Co., New York, N. Y. Dress and negligee shirts. No. 156,811; July 11.
- Rose, John F., Davenport, Iowa, assignor to Kil-Nock Company, Inc. Automatic adjusters for bearings for automobiles and other machinery. No. 156,744; July 11.
- Rosenfield, Simon D., Philadelphia, Pa. Sole-leather cut stock strips. No. 156,816; July 11.
- Rossendale-Reddaway Belting & Hose Company. (See Reddaway, F., & Co., assignor.)
- S. & S. Shirt Company, The, Phillipburg, Pa. Overalls. No. 156,814; July 11.
- Schiller, Lou J., New York, N. Y. Ready-made bat linings. No. 156,812; July 11.
- Schmukler, S., & Son, Philadelphia, Pa. Certain electrical apparatus. No. 156,745; July 11.
- Schoellkopf Co., The, Dallas, Tex. Harness, saddles, bridles, etc. No. 156,746; July 11.
- Schwob, Adolphe, Inc., New York, N. Y. Watches and watch movements, dials, and cases. No. 156,747; July 11.
- Seecroft, John, & Sons Company, Ogden, Utah. Coffee, food-flavoring extract, tea. No. 156,749; July 11.

- Scully, D. B., Syrup Company, Chicago, Ill. Molasses. No. 156,750; July 11.
- Security Certificate Company, Los Angeles, Calif. Title and identification certificate. No. 156,751; July 11.
- Selger, M., & Son, New York, N. Y. Finger rings. No. 156,752; July 11.
- Seltzer, Harry J., Reading, Pa. Hosiery, underwear, wristlets, neckties, sweaters, etc. No. 156,813; July 11.
- Shapiro, S., Company Inc., Syracuse and New York, N. Y. Young men's and boys' double-seated trousers. No. 156,815; July 11.
- Shapleigh, Blasdel, trading as Blasdel Products Co., St. Louis, Mo. Electric spark energizer. No. 156,624; July 11.
- Shelby Supply and Manufacturing Company, The, Cleveland, Ohio. Chewing gum. No. 156,753; July 11.
- Silurium Manufacturing Company, The, Cleveland, Ohio. Battery boxes. No. 156,754; July 11.
- Simmons Hardward Company, St. Louis, Mo. Storage batteries. No. 156,755; July 11.
- Societe Generale de Coutellerie et Orfeverie, Paris, France. Articles of cutlery. Nos. 156,756-7; July 11.
- Souora, Inc., New York, N. Y. Talking machines, phonographs, and music boxes. No. 156,817; July 11.
- Spector & Son Piano Co., Inc., The, New York, N. Y. Grand and upright pianos, player pianos, and electrically-operated pianos. No. 156,758; July 11.
- Stacy, Eugene C., Tiffin, Ohio. Load binders. No. 156,759; July 11.
- Stem, John D., Asbury Park, N. J. Candles and confections. No. 156,760; July 11.
- Sterolelectric Company, The, Muncie, Ind. Electric stoves. No. 156,763; July 11.
- St. Louis Coffee & Spice Mills, St. Louis, Mo. Coffee. No. 156,764; July 11.
- Stolzer, Harry, New York, N. Y. Writing inks. No. 156,761; July 11.
- Strong, Hewat & Co. Inc., North Adams, Mass., and New York, N. Y. Woolen piece goods. No. 156,818; July 11.
- Sturtevant, B. F., Company, Boston, Mass. Centrifugal fans. No. 156,762; July 11.
- Sunny Line Appliances, Inc., Detroit, Mich. Laundry washing machines. No. 156,765; July 11.
- Theodore Bros. Chocolate Co., St. Louis, Mo. Chocolate candy. No. 156,766; July 11.
- Thompson & Company, Tampa, Fla. Cigars, smoking tobacco, and cigarettes. No. 156,819; July 11.
- Trinity Grocery Co., Dallas, Tex. Vinegars, salad dressing, honey, coffee, etc. No. 156,767; July 11.
- Type-Adder Mfg. Corp., New York, N. Y. Adding machines and adding-machine attachments. No. 156,768; July 11.
- Uncas Manufacturing Co., Providence, R. I. Finger rings. No. 156,769; July 11.
- United Auto Electric Service, Inc., Newark, N. J. Storage batteries. No. 156,770; July 11.
- United Knitting Works Company (Limited), The, Aarburg, Switzerland. Knit underwear. No. 22,105; renewed Dec. 6, 1922.
- Utility Manufacturing Company, Inc., Goldsboro, N. C. Built-up packing cases. No. 156,820; July 11.
- Van Dyk and Reeves, assignor to Van Dyk and Reeves, Inc., Brooklyn, N. Y. Fresh dates. No. 156,771; July 11.
- Venus Manufacturing Company, Minneapolis, Minn. Shirts with reversible cuffs. No. 156,821; July 11.
- Viriden Packing Company, Oakland, Calif. Canned fruits and vegetables. No. 156,772; July 11.
- Viriden Packing Company, Oakland, Calif. Canned fruits and canned vegetables. No. 156,773; July 11.
- Voit, William, Co., New York, N. Y. Strings for violins and similar musical instruments. No. 156,787; July 11.
- Voltax Company, The, Bridgeport, Conn. Ready-mixed paints and paint enamels. No. 156,774; July 11.
- Wahl Company, The, Chicago, Ill. Fountain pens and parts thereof. No. 156,823; July 11.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chemical-control equipment for water purification, chlorine-control apparatus, and certain other apparatus. No. 156,775; July 11.
- Waters & Waters Mfg. Co., St. Louis, Mo. Typewriter ribbons, carbon paper, and certain inks. No. 156,824; July 11.
- Waters, William A., Company, Newark, N. J. Jewelry for personal wear. No. 156,776; July 11.
- Watson, Seth W., Saginaw, Mich. Candies. No. 156,777; July 11.
- Weideman Company, The, Cleveland, Ohio. Cigars, cigarettes, smoking, chewing, and plug tobacco. No. 156,778; July 11.
- Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, conserves. No. 156,779; July 11.
- Weppner-Weil Company, Cleveland, Ohio. Coffee. No. 156,780; July 11.
- West Point Manufacturing Company, Langdale, Ala. Crash, towels, and towelings. No. 156,825; July 11.
- Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Certain radio mechanism. No. 156,781; July 11.
- Weyman, H. A., & Sons, Inc., Philadelphia, Pa. Finished strings for stringed musical instruments. No. 156,782; July 11.
- White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper. No. 156,783; July 11.
- Whittle, D. L., Music Company, Dallas, Tex. Certain musical instruments and supplies. No. 156,784; July 11.
- Widney Company, The, Chicago, Ill. Piano trapwork, wire, and pedals. No. 156,785; July 11.
- Wightman & Hough Company, Providence, R. I. Belt, shoe, and clothing buckles made of precious metal or imitation precious metal. No. 156,786; July 11.
- Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, disk, turbine, and boiler-feed meters, disk counters. No. 156,788; July 11.
- Worthington Pump and Machinery Corporation, New York, N. Y. Liquid, piston, weight, etc., meters, disk counters. No. 156,789; July 11.
- Worthington Pump and Machinery Corporation, New York, N. Y. Battery and electric lighting plants, switchboards. No. 156,790; July 11.
- Yard-O-Meter Corporation, St. Louis, Mo. Computing machines. No. 156,791; July 11.
- Yellow Jacket Manufacturing Company, Portland and Anderson, Ind. Explosive engines. No. 156,792; July 11.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- Albers Bros. Milling Co., Seattle, Wash. "Hygeno." (For a Whole-Wheat Flour.) No. 24,694; July 11.
- Beckwith Co., The, Reedley, Calif. "Beckwith." (For Fancy Kadota Figs.) No. 24,695; July 11.
- Charleston Drug Mfg. Co., Charleston, S. C. "Lightnin'." (For an Insecticide.) No. 24,696; July 11.
- Dutton, Llewellyn B., San Jose, Calif. "Double Eagle." (For Fresh Pears.) No. 24,697; July 11.
- Hochschild Corporation, Chicago, Ill. "De Luxe Tu-Tone." (For Powder Puffs.) No. 24,698; July 11.
- Hochschild Corporation, Chicago, Ill. "Best-Ever-Sponge Ball." (For a Rubber Ball with Rubber Sponge Center.) No. 24,699; July 11.
- Huenig, Theodore J., Burlington, Wis. "Flor De Anson." (For Cigars, Cigarettes, and Tobacco.) No. 24,700; July 11.
- Kehlor Flour Mills Co., St. Louis, Mo. "Kelcomeal." (For a Food.) No. 24,701; July 11.
- Loewi, Hugo V., Inc. (See Ray, A. J., & Son, Inc.)
- Macleay Estate Co., The, Portland, Ore. "Crown." (For Salmon.) No. 24,702; July 11.
- Macleay Estate Co., The, Portland, Ore. "Royal." (For Salmon.) No. 24,703; July 11.
- Marshall, Blaine M., New Albany, Ind. "Marshall's Blue Fountain Pen Ink." (For Packages of Blue Ink.) No. 24,704; July 11.
- Oertel Co. Incorporated, The, Louisville, Ky. "Real-Lager." (For a Cereal Beverage.) No. 24,705; July 11.
- Primalt Products Co., Chicago, Ill. "Prima." (For Barley Malt Extract.) No. 24,706; July 11.
- Primalt Products Co., Chicago, Ill. "Prima." (For Ginger Ale.) No. 24,707; July 11.
- Ray, A. J., & Son, Inc., doing business as Hugo V. Loewi Inc., Portland, Ore. "Bates." (For Hops.) No. 24,708; July 11.
- Ray, A. J., & Son, Inc., doing business as Hugo V. Loewi Inc., Portland, Ore. "Mt. Hood." (For Hops.) No. 24,709; July 11.
- 20th Century Tire Protector Co., Midlothian, Tex. "Grizzly Grip." (For White Rubber Patch.) No. 24,710; July 11.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

- Mulconroy Company, Inc., Philadelphia, Pa. "Hose Mulconroy." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, etc.) No. 6,209; July 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Abell, Walter, El Campo, Tex. Medicinal preparation for treatment of loim disease in cattle. No. 159,547; July 11.
- Ada Importing Co., Inc., The, Niagara Falls, N. Y. Olive oil and alimentary paste. No. 156,347; July 11.
- Allen and Clay, Detroit, Mich. External medicines for use in the treatment of rheumatism, neuralgia, etc. No. 160,784; July 11.
- Ambassador Tire Corporation, New York, N. Y. Pneumatic rubber vehicle tires. No. 164,290; July 11.
- American Stove Company, St. Louis, Mo. Gas stoves and heaters. No. 163,959; July 11.
- Anheuser-Busch, Incorporated, St. Louis, Mo. Maltless carbonated coffee beverage sold as a soft drink. No. 150,211; July 11.
- Ansbacher & Van Baslen, New York, N. Y. Hosiery. No. 153,121; July 11.
- Antitartar Chemical Company, Denver, Colo. Dentifrices and gun and tooth remedies. No. 157,790; July 11.
- Ashtabula Bow Socket Company, The, Ashtabula, Ohio. Bow sockets for vehicle tops and fittings therefor. No. 146,286; July 11.
- Atwood Machine Company, The, Stonington, Conn. Spinning frames. No. 158,553; July 11.
- Atwood Machine Company, The, Stonington, Conn. Combination doubling and twisting frames. No. 158,554; July 11.
- Atwood Machine Company, The, Stonington, Conn. Doubling frames. No. 158,555; July 11.
- Atwood Machine Company, The, Stonington, Conn. Silk-reeling frames. No. 158,557; July 11.
- Auerbach Bath Robe Co., The. (See Auerbach, Morris.)
- Auerbach, Morris, doing business as The Auerbach Bath Robe Co., New York, N. Y. Bath robes, Pullman and beach robes, and house robes. No. 158,031; July 11.
- Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers. No. 163,774; July 11.
- Basso, Salvatora, Chicago, Ill. Hair tonic. No. 156,517; July 11.
- Bay State Thread Works, Springfield, Mass. Cotton threads. No. 150,131; July 11.
- Bayer Company, Inc., The, New York, N. Y. Preparation or medicine for pains and aches of nervous or organic origin and for rheumatic, neuralgic, and gouty conditions, etc. Nos. 160,921-3; July 11.
- Beacon Manufacturing Company, Providence, R. I. Blankets, comfortable, traveling rugs, baby bags, etc. No. 141,753; July 11.
- Bes-Ben Shop, Chicago, Ill. Women's hats and furs. No. 156,773; July 11.
- Bettes & Ebsen, New York, N. Y. Brake lining. No. 163,775; July 11.
- Binney & Smith Company, East Orange, N. J., and New York, N. Y. Modeling clay. No. 159,138; July 11.
- Blakey's Boot Protectors Limited, Leeds, England. Boot polish. Nos. 158,413-14; July 11.
- Boot and Shoe Recorder Publishing Company, Boston, Mass. Shoe and leather trade monthly periodical. No. 159,686; July 11.
- Boot and Shoe Recorder Publishing Company, Boston, Mass. Shoe and leather trade weekly periodical. No. 159,786; July 11.
- Booth Mills, Lowell, Mass. Scrim in the piece. No. 145,873; July 11.
- Bordeaux & New York Trading Co., doing business as Etablissements Dorsay, New York, N. Y. Sardines. No. 157,882; July 11.
- Campbell, Chester I., Boston, Mass. Magazine published monthly. No. 156,681; July 11.
- Caravel Company Inc., New York, N. Y. Ice and roller skates, baseballs, bats, mitts, golf balls, etc. No. 134,112; July 11.
- Christopher, Arthur B., doing business as The Tel-Auto-Spark Company, St. Louis, Mo. Electrical circuit tester. No. 157,138; July 11.
- Cincinnati House Shoe & Iron Co., Cleves, Ohio. Automobile springs. No. 163,671; July 11.
- Clinton Chemical Company, Irvington, N. J. Gasoline intensifier. No. 158,857; July 11.
- Collierville Bat and Dimension Stock Company, The, Collierville, Tenn. Baseball bats. No. 162,381; July 11.
- Comer Manufacturing Company, The, Dayton, Ohio. Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. No. 153,239; July 11.
- Commerce Fruit Company, Eustis, Fla. Fresh oranges, grapefruits, and tomatoes. No. 155,014; July 11.
- Commercial Lime Company, Ocala, Fla. Hydrated and quick lime. No. 162,533; July 11.
- Dairymen's League Co-operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milk, and ice cream. No. 161,529; July 11.
- Davis, Louisiana M., Glencoe, Ill. Dolls and toy figures. No. 159,201; July 11.
- Diederich, Marcellus, doing business as Standard Products Company, Lorain, Ohio. Insecticide. No. 159,367; July 11.
- Dunhill, Alfred, of London, Inc., New York, N. Y. Cigars, little cigars, cigarettes, and smoking tobacco. Nos. 163,037-8; July 11.
- Dunlop Tire and Rubber Corp. of America, Buffalo, N. Y. Golf balls. No. 156,153; July 11.
- Dunn-Pen Company Inc., New York, N. Y. Fountain pens. No. 157,215; July 11.
- Durabilt Steel Locker Co., Aurora, Ill. Steel lockers, wardrobes, and filing cabinets, and steel shelving. No. 159,250; July 11.
- Eckert, E. H., Los Angeles, Calif. Meat and bone scraps for use as poultry feed. No. 155,052; July 11.
- Erlanger, N., Blumgart & Co. Inc., New York, N. Y. Cotton textiles in the piece. Nos. 161,723-4; July 11.
- Esmond Mills, The, New York, N. Y. Blankets, blanket fabrics, cotton piece goods, ribbons, robes, etc. No. 155,673; July 11.
- Etablissements Dorsay. (See Bordeaux & New York Trading Co.)
- Flexume Sign Company, Buffalo, N. Y. Electrically-illuminated signs. No. 132,736; July 11.
- Fox River Paper Company, Appleton, Wis. Writing paper. Nos. 136,263-5; July 11.
- Frank, A. B., Company, San Antonio, Tex. Outer clothing for men and boys. No. 155,957; July 11.
- Friedman, Ike K., Fort Worth, Tex. Oranges. No. 155,604; July 11.
- Glass Container Association of America, New York, N. Y. Monthly publication. No. 162,336; July 11.
- Goldaber, M., & Co., New York, N. Y. Human-hair nets. No. 143,491; July 11.
- Gottlieb, Samuel, New York, N. Y. Push cards. No. 162,108; July 11.
- Governform Corporation, The, New York, N. Y. Belts, belting, and elastic. No. 155,682; July 11.
- Graceline Knitting Company, Linfield, Pa. Ladies' knitted underwear. No. 156,326; July 11.
- Grennan Cake Corporation, Cleveland, Ohio; Detroit, Mich.; St. Paul and Minneapolis, Minn., and Chicago, Ill. Cakes, cookies, and fried cakes. No. 154,587; July 11.
- Grone & Co., St. Louis, Mo. Beverages, more specifically soda water. No. 129,545; July 11.
- Gustafson, Jennie C., Seattle, Wash. Liniment for the treatment of rheumatism. No. 158,281; July 11.
- Guy, John C., Company Incorporated, The, Lexington, Ky. Cigars. No. 144,023; July 11.
- Haartz, John C., Boston, Mass. Guernsey cows. No. 157,568; July 11.
- Hay, Clarence C., Como, Miss. Hair dressing. No. 117,377; July 11.
- Helmholz Mitten Company, Cudahy, Wis. Gloves and mittens. No. 155,020; July 11.
- Herbicide Chemical Laboratories, Los Angeles, Calif. Spray for trees, plants, shrubs, and the like. No. 160,666; July 11.
- Herndon, Marvin, Washington, D. C. Remedy for indigestion and dyspepsia. No. 158,312; July 11.
- Hess, John E., Clearfield, Pa. Periodical magazine published monthly. No. 158,710; July 11.
- Hill, R. D., Company, Los Angeles, Calif. Medicated shampoo liquid compositions, balsams, and ointments for eczema. No. 160,811; July 11.
- Holbert & Holbert, doing business as Holbert Syrup Co., Manhattan, Kans. Sirup made from pure sugar cane flavored with maple flavoring. No. 152,423; July 11.
- Horn, W. O., & Brother, Inc., New York, N. Y. Cravats. No. 157,422; July 11.
- Hornsey, John W., Jamaica Plain, Boston, Mass. Hair restorers. No. 159,655; July 11.
- Hornung, Mathilda G., West New York, N. Y. Salve for the treatment of itching diseases, sores, burns, etc. No. 160,762; July 11.
- Individual Tailoring Company, Cincinnati, Ohio. Men's and young men's clothing. No. 151,948; July 11.
- Jennings & Company, Inc., Boston, Mass. Dyestuffs. No. 159,586; July 11.
- Johns Manville Incorporated, New York, N. Y. Piston and piston-rod packing. No. 164,445; July 11.
- Jolie, Inc., New York, N. Y. Face, talcum, and sachet powders, face creams, rouges, etc. Nos. 160,944-5; July 11.
- Jones & Baker, New York, N. Y. Publication published weekly. No. 162,742; July 11.
- Jordan, H. I., Auburn, Me. Golf clubs. No. 163,583; July 11.
- Kemp, C. M., Manufacturing Co., The, Baltimore, Md. Gas apparatus and gas burners. No. 131,334; July 11.
- Keystone Flour Co., Incorporated, Philadelphia, Pa. Wheat flour. No. 154,984; July 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

xix

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Kitchen, George L., doing business as Hemolene Chemical Co., St. Louis, Mo. Tooth paste and mouth washes. No. 160,888; July 11.
- Klein, Emanuel, New York, N. Y. Pure-fat salad oil and cooking oil. No. 154,083; July 11.
- Kravitz, Rebecca, Vineland, N. J. Washing fluid. No. 161,195; July 11.
- Kurtzinger, Pearl, doing business as L & P Soap Company. Detroit, Mich. Soap. No. 151,918; July 11.
- L & P Soap Company. (See Kurtzinger, Pearl.)
- Landman, Robin, Milwaukee, Wis. Cigars. No. 159,270; July 11.
- Langley & Michaels Co., San Francisco, Calif. Antiseptic and germicidal solution. No. 159,710; July 11.
- Lehmann, O. E., & Co., New York, N. Y. Ring springs. No. 161,688; July 11.
- Leslie, Eugene H., doing business as Motors Efficiency Co., Ann Arbor, Mich. Chemical preparation. No. 158,720; July 11.
- Lilly, Eli, & Company, The, Indianapolis, Ind. Medicinal preparation for the treatment of rheumatism, etc. No. 159,211; July 11.
- Litt, Arthur, & Co., New York, N. Y. Men's suits, trousers, and overcoats. No. 151,763; July 11.
- Loeb, Joseph, Company, The, Cincinnati, Ohio. Women's, misses', and children's hats. No. 155,971; July 11.
- Lubbers & Bell Mfg. Co., Clinton, Iowa. Solitaire game. No. 162,882; July 11.
- McCabe, George J., doing business as McCabe Drug Co., Nekoma, N. Dak. Medicines for external use for the treatment of coughs, colds, etc. No. 153,888; July 11.
- McComb, James B., Scarsdale, N. Y. Liquid food-flavoring extracts. No. 154,318; July 11.
- Macy, R. H., & Co. Inc., New York, N. Y. Apron. No. 148,290; July 11.
- Maggoni, L. E., & Co., Savannah, Ga. Oysters. No. 156,399; July 11.
- Mandel Brothers, Chicago, Ill. Dresses and aprons. No. 156,538; July 11.
- Manhattan Rubber Mfg. Co., The, Passaic, N. J. Brake lining. No. 160,891; July 11.
- Mappin & Webb Limited, Sheffield and London, England. Tableware. No. 159,473; July 11.
- Marshall-Wells Company, Duluth, Minn. Shovels and scoops. No. 141,318; July 11.
- Mawer-Gulden-Annis Inc., Brooklyn, N. Y. Food products. No. 157,039; July 11.
- May Bros. Co., Fremont, Nebr. Canned fruits and vegetables, rolled oats, olives, etc. No. 154,883; July 11.
- May, Lawrence C., doing business as Lawrence C. May Co., New York, N. Y. Finger rings. No. 153,882; July 11.
- Merrow Machine Company, The, Hartford, Conn. Loopers for overseaming and overedging sewing machines. No. 158,629; July 11.
- Mi Candy Company, New York, N. Y. Sugar-toasted peanuts. No. 155,201; July 11.
- Migel, J. A., Inc., New York, N. Y. Ladies' and misses' silk shirt waists, suits, etc., men's and boys' neckties, pyjamas, blouses, etc. No. 153,677; July 11.
- Millar, Geo. V., Co., Scranton, Pa. China, earthenware, pottery, stoneware, porcelain ware, etc. No. 162,940; July 11.
- Millman, Abe, Inc., New York, N. Y. Outer garment for females. No. 153,742; July 11.
- Moline Plow Company, Moline, Ill. Agricultural machinery. No. 158,628; July 11.
- Moran, William F., Philadelphia, Pa. Men's clothing. No. 157,000; July 11.
- Mosquera, Leoncio, doing business as Wall Street Tobacco Company, New York, N. Y. Cigarettes. No. 158,655; July 11.
- Motors Efficiency Co. (See Leslie, Eugene H.)
- Mott & Wood Co., Wisconsin Rapids, Wis. Butter. No. 153,308; July 11.
- Murphy, Mark J., Chicago, Ill. Malt extract. No. 147,359; July 11.
- Naamlooze Vennootschap tot Exploitatie van Cacao en Chocolaadfabrieken Maatschappij. A. Driessen, Rotterdam, Netherlands. Chocolate, cocoa, cacao. No. 155,415; July 11.
- National Pyro-Zene Company, Atlanta, Ga. Treatment of pyorrhea and for the promotion and maintenance of tooth, gum, and mouth health, etc. No. 160,960; July 11.
- Naumann, Charles T., doing business as Broadway Perfume Company, New York, N. Y. Toilet water, scalp rub, hair tonic, etc. No. 160,717; July 11.
- Neldich, Jacob S., doing business as Neldich Storage Battery Co., Yonkers, N. Y. Storage batteries. No. 158,054; July 11.
- Neldich Storage Battery Co. (See Neldich, Jacob S.)
- New England Confectionery Company, Boston, Mass. Candy. No. 154,837; July 11.
- North East Electric Company, Rochester, N. Y. Tachometers and odometers. No. 161,640; July 11.
- Nunnally Company, The, Atlanta, Ga. Candy. No. 153,255; July 11.
- Overhauser, Joseph H., Portland, Oreg. Candy. No. 150,927; July 11.
- Owl Drug Company, The, San Francisco, Calif. Alkaline antiseptic solution for use in oral and nasal passages. No. 160,964; July 11.
- Owl Drug Company, The, San Francisco, Calif. Antiseptic astringent vaginal suppositories. No. 160,967; July 11.
- Packard Engineering Co., The, Cleveland, Ohio. Shock absorbers and radiator shutters. No. 155,363; July 11.
- Parke, Davis & Company, Detroit, Mich. Medicine for venereal diseases and catarrh of the mucous membrane. No. 160,249; July 11.
- Paton, Calvert & Co. Limited, Liverpool, England. Blacking in liquid or paste form, patent-leather polish, metal polish, etc. No. 146,387; July 11.
- Perkins-Campbell Company, The, Cincinnati, Ohio. Equestrian equipments, notably saddles, bridles, bits, etc. No. 144,148; July 11.
- Picon & Cie., Marseille, France. Medicinal bitter wine. No. 158,251; July 11.
- Piper, O. R., Co., Milwaukee, Wis. Fruit beverage sold as a soft drink and sirups used in preparation of the same. No. 164,259; July 11.
- Pittsburgh-Florida Fruit Growers Assoc., Avon Park, Fla. Citrus fruits in their natural state. No. 156,019; July 11.
- Plax Company, The, New York, N. Y. Laxative tablets. No. 159,527; July 11.
- Pleasant, Robert L., doing business as Nakoma Laboratories, New York, N. Y. Ointment for treatment of eczema and ulcers. No. 160,969; July 11.
- Pocock Manufacturing Company Limited, The, Hamilton, Ontario, Canada. Cork stair treads. No. 146,844; July 11.
- Pohlman, A. W., Paper Co., Inc., New York, N. Y. Bond paper for writing and printing purposes. Nos. 163,469-70; July 11.
- Porter Bros., Philadelphia, Pa. Beverages sold as soft drinks and sirups for making the same. No. 162,888; July 11.
- Primalt Products Co., Chicago, Ill. Beverages sold as soft drinks and sirups used in preparation of same. No. 164,949; July 11.
- Pureline Company, Inc., New York, N. Y. Petroleum jelly, camphor ice, camphorated oil, cold cream, etc. No. 158,005; July 11.
- Putt-Putt Co., The, Chicago, Ill. Indoor golf game. No. 161,199; July 11.
- Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires for vehicles. No. 158,951; July 11.
- Reid, Murdoch & Co., Chicago, Ill. Root beer and ginger ale. No. 164,269; July 11.
- Rosenberg Bros. & Co., Rochester, N. Y. Men's coats, vests, and pants. No. 156,714; July 11.
- Rosenfeld, E., & Company, Baltimore, Md. Night robes and sleeping garments. No. 158,146; July 11.
- Ryan, Lillian G., New York, N. Y. Cold cream. No. 156,752; July 11.
- Saltrates, Limited, London, England. Bath salts. No. 160,723; July 11.
- Samson, Edgar, doing business as Dyatome Laboratories, New York, N. Y. Preparation for coloring and tinting fabrics and the like. No. 160,837; July 11.
- Sawyer, H. M., & Son, East Cambridge, Mass. Knitted coats, jackets, and vests for men, women, and children. No. 157,447; July 11.
- Scherer, Burnell & Scherer, Inc., New York, N. Y. Laundry blue or bluing. No. 129,573; July 11.
- Schmidt, Charles E., trading as Coulter Mfg. Co., Philadelphia, Pa. Shoe holders. No. 158,339-40; July 11.
- Sexton, John, and Company, Chicago, Ill. Crushed fruits, fruit sirups, flavoring extracts, colors, etc. No. 153,112; July 11.
- Sheboygan Coaster & Wagon Works, Sheboygan, Wis. Children's coaster wagons. No. 162,273; July 11.
- Simple Füllfeder-Gesellschaft Voss, Lausen & Dziambor. Fountain pens. No. 163,292; July 11.
- Standard Refrigerator Company, Philadelphia, Pa. Refrigerators. No. 160,369; July 11.
- Stanislawski, Joseph, Hammond, Ind. Healing oil for rheumatism, swelling, boils, etc. No. 158,999; July 11.
- Stix, Baer & Fuller Dry Goods Co., St. Louis, Mo. Necklaces. No. 162,071; July 11.
- Straus Mfg. Co., Erie, Pa. Pants. No. 150,937; July 11.
- Swartz, Thomas J. (See Thomas Textile Company, assignor.)
- System Machine Works, Stockton, Calif. Circulating pumps. No. 158,731; July 11.
- Tel-Auto-Spark Company. (See Christopher, Arthur B.)
- Thomas Textile Company, assignor to Thomas J. Swartz, New York, N. Y. Babies' diapers. No. 158,200; July 11.
- Tire Inflator Co., Philadelphia, Pa. Tire-inflating devices. No. 158,777; July 11.
- Triangle Manufacturing Co., Cedar Rapids, Iowa. Egg-preserving compounds. No. 157,969; July 11.
- Tsagarakis, George, New York, N. Y. Beverages sold as soft drinks. No. 164,525; July 11.
- United States Asbestos Company, Lancaster, Pa. Fabric, brake, and transmission lining. No. 162,653; July 11.
- Vanity Brassiere Company Inc., New York, N. Y. Bandeaux and brassières. No. 156,557; July 11.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Vienna Medical Company, Detroit, Mich. Cough lozenges and sirup and compound for treatment of coughs. No. 159,638; July 11.

Wampole, Henry S., Company, The, Baltimore, Md. Anti-septic solution. No. 158,964; July 11.

Western Cartridge Company, East Alton and Springfield, Ill. Shot shells. No. 164,681; July 11.

Westinghouse Electric & Mfg. Company, East Pittsburgh, Pa. Monthly magazines. No. 159,642; July 11.

White Bluffs Warehouse Co., White Bluffs, Wash. Fresh apples. No. 141,049; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,438-46; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,766-7; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,769-76; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,825-6; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 139,828; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 139,832; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 139,834-5; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 140,154-5; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 140,228-31; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 140,235; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 140,421-2; July 11.

Whiting, John L.-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. Nos. 148,409-12; July 11.

Whiting, John L.-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, etc. No. 157,506; July 11.

Wickercraft, The, Pasadena, Calif. Furniture made of reed, rattan, and fiber. No. 155,288; July 11.

Will & Baumer Candle Co. Inc., Syracuse, N. Y. Incense. No. 160,175; July 11.

Wingert, Martha S., Whittier, Calif. Dolls. No. 161,913; July 11.

Wright & Alexander Company, Rochester, N. Y. Metal inserts for anchoring piping and shafting, etc., to concrete construction. No. 133,015; July 11.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Adapter. F. T. Baird. No. 1,422,331; July 11.
 Advertising device. R. A. Bingaman. No. 1,422,529; July 11.
 Advertising wheel. O. W. Jones. No. 1,422,577; July 11.
 Aerial tramway. F. C. Carstarphen. No. 1,422,255; July 11.
 Aeroplane. O. W. Greene. No. 1,422,197; July 11.
 Aeroplane control. P. Warminski. No. 1,422,503; July 11.
 Aeroplanes, Speed indicator for. A. F. Poole. No. 1,422,224; July 11.
 Air compressor. H. C. Aarup. No. 1,422,070; July 11.
 Air-spring rigging. L. R. Gruss. No. 1,422,566; July 11.
 Aircraft. F. W. Gore. No. 1,422,261; July 11.
 Aircraft, Means for balancing and regulating the lift of. F. H. Page. Nos. 1,422,614-16; July 11.
 Alcohols, Purifying higher secondary. R. B. Lebo. No. 1,422,583; July 11.
 Alloy, Aluminum. F. C. Frary. (Reissue.) No. 15,407; July 11.
 Alloy containing iron, nickel, chromium. P. Girin. No. 1,422,096; July 11.
 Alloys of aluminum and producing same. A. Manhart. No. 1,422,591; July 11.
 Aluminum chloride, Making. H. D. Gibbs. No. 1,422,560; July 11.
 Aluminum chloride, Manufacture of. F. W. Hall. No. 1,422,568; July 11.
 Amusement device. J. D. Froman. No. 1,422,688; July 11.
 Amusement ride. J. Irsch. No. 1,422,764; July 11.
 Animal trap. W. Dunn. No. 1,422,424; July 11.
 Annealing malleable cast iron. C. T. Holcroft. No. 1,422,710; July 11.
 Anticrepper. H. G. Gillmor. No. 1,422,260; July 11.
 Antiskid device. W. L. Majors. No. 1,422,285; July 11.
 Antiskid device. G. D. Winters. No. 1,422,646; July 11.
 Arm, Artificial. P. Nicola. No. 1,422,468; July 11.
 Arseno-stibino compounds and making the same, Complex. C. N. Myers. No. 1,422,294; July 11.
 Articles, Apparatus for cleaning. G. W. Schweinsberg and M. I. Doyle. No. 1,422,309; July 11.
 Ash receptacle. L. Aptowicz. No. 1,422,165; July 11.
 Atomizer. E. C. Petcher. No. 1,422,778; July 11.
 Autographic register. H. L. Roberts. No. 1,422,132; July 11.
 Automaton, Motion device for. F. Gorgellino. No. 1,422,436; July 11.
 Automobile bodies to the chassis, Means for connecting. A. C. Desler. No. 1,422,086; July 11.
 Automobile bumper. N. MacInnes. No. 1,422,103; July 11.
 Automobile fender. S. H. Sumbulian. No. 1,422,388; July 11.
 Automobile hood. R. E. Robinson. No. 1,422,305; July 11.
 Automobile lock. C. F. Murray. No. 1,422,221; July 11.
 Automobile lubricating device. C. V. Nord. No. 1,422,608; July 11.
 Automobiles, Washbasin for. W. H. Hollis. No. 1,422,763; July 11.
 Awnings, Attachment for. J. A. Lenhoff. No. 1,422,772; July 11.
 Axle. T. Zimmerman. No. 1,422,647; July 11.
 Bag frame. F. A. Fuller. No. 1,422,554; July 11.
 Bag holder. R. W. and W. V. Beal. No. 1,422,524; July 11.
 Bag holder. E. O. Bulman. No. 1,422,659; July 11.
 Banana unloader. J. Brennan. No. 1,422,856; July 11.
 Banjo structure. C. Parker. No. 1,422,769; July 11.
 Bar: See—
 Iron bar.
 Bar-spacing device. W. E. White. No. 1,422,157; July 11.
 Barrette. M. D. Meserole. No. 1,422,464; July 11.
 Bassinet. A. Pomilio. No. 1,422,619; July 11.
 Bathtubs, Sustaining means for infants. C. C. Keehn. No. 1,422,718; July 11.
 Battery grip. C. E. Johnson. No. 1,422,765; July 11.
 Bearing. A. Kingsbury. No. 1,422,448; July 11.
 Bearing and making same. W. G. H. Brehmer. No. 1,422,655; July 11.
 Bearing, Roller. O. F. Zahn. No. 1,422,162; July 11.
 Bearing, Synthetic jewel. T. G. McDougal and S. J. McDowell. No. 1,422,216; July 11.
 Bearings or other purposes, Manufacturing composite articles for. E. G. Dann. No. 1,422,677; July 11.
 Bed attachment. F. Cortese. No. 1,422,744; July 11.
 Bed-laster and clasp. C. F. Adams. No. 1,422,806; July 11.
 Bed, Portable folding. F. M. Stoll. No. 1,422,320; July 11.
 Beds, Elevating rack for. C. G. Alguire. No. 1,422,405; July 11.
 Belt, Conveyer. J. N. Kenny. No. 1,422,208; July 11.
 Belt conveyers, Troughing pulley for. F. I. L. Bylger. No. 1,422,662; July 11.
 Belt, Conveying. J. L. Wentz. No. 1,422,399; July 11.
 Belts, Fastening for driving. A. J. Forbes. No. 1,422,430; July 11.
 Belting tool. A. G. Bava. No. 1,422,332; July 11.
 Bench or floor dog. F. Jaskowiak. No. 1,422,272; July 11.
 Binders, mowers, and other vehicles, Coupling for trains of. C. R. Davis. No. 1,422,186; July 11.
 Block: See—
 Building block. Paving block.
 Blocks, Core for making ventilated. E. L. Page. No. 1,422,370; July 11.
 Blotter. F. A. Fuller. No. 1,422,555; July 11.
 Boat, Multiple-hull. F. G. Creed. No. 1,422,542; July 11.
 Boot protector. J. N. Eltgroth. No. 1,422,683; July 11.
 Boring machine. W. P. Lotz. No. 1,422,456; July 11.
 Bottle carrier, Milk. C. E. Hough. No. 1,422,574; July 11.
 Bottle holder, Nursing. J. C. Phillips. No. 1,422,223; July 11.
 Bowling pins, Means for making cast. R. E. Stanley, Sr. No. 1,422,232; July 11.
 Box: See—
 Collapsible box. Fiber-board box.
 Feed box.
 Box machine. L. W. Darling. No. 1,422,544; July 11.
 Box-pressing machine. M. R. Kondolf. No. 1,422,580; July 11.
 Boxes, Apparatus for sealing. A. Pape. No. 1,422,300; July 11.
 Brace: See—
 Corner brace. Track brace.
 Bracelet link. O. Fessler. No. 1,422,428; July 11.
 Bracket: See—
 Bumper bracket. Radiator bracket.
 Brake mechanism. H. Dotzer and S. G. Barnard. No. 1,422,423; July 11.
 Brakes, Release and take-up device for. A. K. Pehrson. No. 1,422,125; July 11.
 Breakers, Controller for automatic vacuum. W. A. Howland. No. 1,422,444; July 11.
 Bridge, Lift. P. Joosting. No. 1,422,717; July 11.
 Bronze worm-gear mounting. J. W. White, Jr. No. 1,422,512; July 11.
 Brush. J. E. Chieso. No. 1,422,739; July 11.
 Brush, Combination face. A. E. Rope. No. 1,422,787; July 11.
 Brush, Phonograph record. E. J. Bakula. No. 1,422,166; July 11.
 Bucket for handling loose materials. L. D. Moore. No. 1,422,601; July 11.
 Buckets, Chain attachment for elevator. H. B. Walker. No. 1,422,151; July 11.
 Building block. H. L. Emery. No. 1,422,258; July 11.
 Building block. W. Tackenberg. No. 1,422,146; July 11.
 Bumper. P. E. Demmer. No. 1,422,546; July 11.
 Bumper bracket. R. T. Newton. No. 1,422,777; July 11.
 Burner: See—
 Hydrocarbon burner.
 Burner-lifting means. J. S. Brennan. No. 1,422,079; July 11.
 Bushing coupling, Frictional. L. W. Misenheimer. No. 1,422,598; July 11.
 Bushing inserter or remover. O. F. Timm. No. 1,422,390; July 11.
 Button stay strips, Sewing machine for applying. J. R. Moffatt. No. 1,422,220; July 11.
 Calcium carbide, Manufacturing. W. B. Rogatz. No. 1,422,135; July 11.
 Calendar, Maturity. J. M. Stout. No. 1,422,235; July 11.
 Cameras, Film-winding mechanism for. W. A. Riddell. No. 1,422,131; July 11.
 Camp chair, Folding. F. M. Stoll. No. 1,422,319; July 11.
 Camping trailer. W. J. Vint. No. 1,422,498; July 11.
 Can-body-ending machine. T. F. Filtzsimons. No. 1,422,192; July 11.

- Can-discharge device. A. R. Thompson. No. 1,422,798; July 11.
- Can opener. F. L. Whitcomb. No. 1,422,400; July 11.
- Cap. H. S. Gooding. No. 1,422,435; July 11.
- Cap shaper. O. C. Leger. No. 1,422,366; July 11.
- Car-coupling release rigging. G. E. Murray. No. 1,422,293; July 11.
- Car-door lock. J. D. McQuiston. No. 1,422,589; July 11.
- Car, Grain. W. J. Robider. No. 1,422,133; July 11.
- Car-wheel-boring machine. W. T. Sears. No. 1,422,140; July 11.
- Cars, Emergency bearing for railway. F. Mehlis. No. 1,422,596; July 11.
- Cars, Hatch cover for refrigerator. A. G. Sandman. No. 1,422,139; July 11.
- Carbonizing method. W. Bonsor. No. 1,422,530; July 11.
- Carburetor. F. E. Aseltine. No. 1,422,329; July 11.
- Carburetor for internal-combustion engines. C. Brown. No. 1,422,413; July 11.
- Carriage, Child's. C. A. Lindberg. No. 1,422,277; July 11.
- Carrier: See—
Bottle carrier. Tire carrier.
- Carriers, System of conveying and delivering material to. F. L. Stuart. No. 1,422,493; July 11.
- Chain. J. F. Schott. No. 1,422,790; July 11.
- Chair: See—
Camp chair.
- Chilling and freezing animal substances. J. C. Shaw. No. 1,422,627; July 11.
- Chilling and freezing animal substances. Apparatus or plant for. J. C. Shaw. No. 1,422,628; July 11.
- Chlorosulphonic acid. T. L. Briggs. No. 1,422,335; July 11.
- Cigar and cigarette ash retainer. C. H. Kattenberg. No. 1,422,578; July 11.
- Cigarette holder. T. Duncan. No. 1,422,347; July 11.
- Cigarettes, Apparatus for collecting and conveying. W. E. Molins. No. 1,422,600; July 11.
- Circuit connector. H. A. Douglas. No. 1,422,257; July 11.
- Circuit protector, Interlock. J. Lebovici. No. 1,422,110; July 11.
- Clasp and lock, Combination. M. Leibovitz. No. 1,422,214; July 11.
- Cleaner: See—
Comb cleaner. Thread cleaner.
Suction cleaner.
- Cleaners, Beater for suction. E. B. Hoff. No. 1,422,100; July 11.
- Clip: See—
Retaining clip.
- Clips, Making wire-rope clamp. G. C. Soule and J. B. Woodbury. No. 1,422,314; July 14.
- Clock. P. Mansel. No. 1,422,590; July 11.
- Coal, Coking of. S. R. Illingworth. No. 1,422,269; July 11.
- Coal, Method of and means for distilling. A. W. Helmholz. No. 1,422,706; July 11.
- Coaster, Gliding. A. H. Hieatzman. No. 1,422,203; July 11.
- Coating apparatus. C. I. Dayton. No. 1,422,545; July 11.
- Coffin. G. M. Mahar and P. M. M. Phelps. No. 1,422,726; July 11.
- Coke-oven doors, Apron for. L. E. Doty and F. H. Smith. No. 1,422,756; July 11.
- Collapsible box. N. A. Gibbons. No. 1,422,692; July 11.
- Color print viewable by lights of different colors and making same. C. Berger. No. 1,422,527; July 11.
- Comb cleaner. C. Runyan. No. 1,422,788; July 11.
- Comestibles, Method and apparatus for handling. P. W. Petersen. No. 1,422,126; July 11.
- Compensating starting switch. V. N. Marker. No. 1,422,592; July 11.
- Concrete insert. C. C. Tomkinson. No. 1,422,636; July 11.
- Concrete pipes, Apparatus for forming. D. N. Trullinger and L. A. Granger. No. 1,422,150; July 11.
- Conduit coupling. J. F. Rambo. No. 1,422,374; July 11.
- Connecting two elements, Means for. J. H. Williams. No. 1,422,158; July 11.
- Container. E. A. Neiman. No. 1,422,606; July 11.
- Containers, specially those for food, Air-tightly sealing composition for metal. J. H. Mackenzie. No. 1,422,114; July 11.
- Conveyer. F. L. Stuart. No. 1,422,492; July 11.
- Conveyers, Reciprocating pan. G. C. Illingworth. No. 1,422,270; July 11.
- Conveying and delivering material, Apparatus for. D. Fraser, S. Shafer, Jr., and C. W. Levalley. No. 1,422,687; July 11.
- Cooker and boiler. W. A. Penrod. No. 1,422,472; July 11.
- Cooker, Electric steam-pressure. W. A. Duncan. No. 1,422,348; July 11.
- Cooling and freezing of fish and the like. Apparatus for. W. B. Hardy and J. J. Pique. No. 1,422,570; July 11.
- Corn-husking machine. G. Norgren. No. 1,422,609; July 11.
- Corn planters, Combination rolling cutter and shoe furrow opener for. L. H. Langland. No. 1,422,454; July 11.
- Cornerrib-floor mold, Ventilated. E. L. Page. No. 1,422,371; July 11.
- Corner brace. W. R. Kropf. No. 1,422,770; July 11.
- Cotter-pin puller. M. H. Harter. No. 1,422,201; July 11.
- Coupling: See—
Conduit coupling. Selective coupling.
Draft coupling. Shaft coupling.
Flexible coupling. Traction coupling.
- Coupling, Selective. L. H. Bullard. No. 1,422,536; July 11.
- Crane, Portable floor. R. E. Manley. No. 1,422,459; July 11.
- Crate, Collapsible. E. E. Sutherland. No. 1,422,797; July 11.
- Current flowing in an alternating-current circuit, Means for controlling and measuring a. E. O. Schweitzer. No. 1,422,484; July 11.
- Curtain, Combination back and side. K. Forbes. No. 1,422,431; July 11.
- Cutlery, Polishing compound for finishing table. G. F. Hemming. No. 1,422,707; July 11.
- Cutlery-polishing machine. C. H. Hemming. No. 1,422,358; July 11.
- Cutter: See—
Potato cutter. Thread cutter.
- Cycle, Water. G. C. Brown. No. 1,422,533; July 11.
- Cylinder lock. M. C. Maxwell. No. 1,422,595; July 11.
- Damper, Fireplace. G. A. Morrell. No. 1,422,465; July 11.
- Davit, Ship's. T. J. Carr. No. 1,422,175; July 11.
- Dehydrator or drier. D. P. Power. No. 1,422,620; July 11.
- Dehydrators, Combustion and mixing chamber for. F. C. Chapman. No. 1,422,416; July 11.
- Dental and surgical table, Knockdown. W. G. Holmes. No. 1,422,101; July 11.
- Dental impression tray. E. R. Smith. No. 1,422,488; July 11.
- Dental-plate anchorage. E. H. Lacc. No. 1,422,452; July 11.
- Desk-drawer lock. I. A. Stafford. No. 1,422,631; July 11.
- Diastock. I. W. Nonneman. No. 1,422,222; July 11.
- Dimmer. J. M. Waddell. No. 1,422,393; July 11.
- Diphenylguanidine, Making. M. L. Weiss. No. 1,422,506; July 11.
- Diphenylamine, Manufacturing. A. P. Tanberg. No. 1,422,494; July 11.
- Disconnecting device. J. P. Arndt. No. 1,422,248; July 11.
- Dispensing device. E. and G. Kent. No. 1,422,768; July 11.
- Distilling carbonaceous material. W. Thomas. No. 1,422,496; July 11.
- Distilling process. F. Pollak. No. 1,422,475; July 11.
- Door check. A. Reeves. No. 1,422,783; July 11.
- Door check. P. Zimbelmann. No. 1,422,163; July 11.
- Door lock. A. Gablenz. No. 1,422,690; July 11.
- Doorknob lock. J. Nelson. No. 1,422,467; July 11.
- Draft coupling. E. Fowler and J. V. Lewis. No. 1,422,194; July 11.
- Draft regulator, Automatic. C. J. Sherwood. No. 1,422,311; July 11.
- Drafting instrument. C. A. Walters. No. 1,422,641; July 11.
- Drill: See—
Rock drill.
- Drill. A. L. Hawkesworth. Nos. 1,422,264-5; July 11.
- Drills and similar tools, Drive for. W. Thompson and W. J. Roy. No. 1,422,322; July 11.
- Drum feeder. G. T. Pollard and O. H. Johnson. No. 1,422,618; July 11.
- Dynamo-electric machine. E. A. Watson. No. 1,422,154; July 11.
- Edger. A. Meeeen. No. 1,422,463; July 11.
- Egg turner. W. H. Bihn. No. 1,422,250; July 11.
- Electric condenser. F. S. Smith. No. 1,422,312; July 11.
- Electric generator. L. J. Le Pontois. No. 1,422,584; July 11.
- Electric machine, Multidisk. R. H. Wappler. No. 1,422,395; July 11.
- Electric machines, Brush holder for. E. Dörrfel. No. 1,422,188; July 11.
- Electric vacuum apparatus. M. Schenkel and J. Jüst. No. 1,422,481; July 11.
- Electrical apparatus, Connection for. C. D. Filkins. No. 1,422,429; July 11.
- Electrical connector device. R. B. Benjamin. No. 1,422,170; July 11.
- Electrical control apparatus. C. Schwartz. No. 1,422,625; July 11.
- Electrical controlling device, Automatic. C. F. P. Carrier. No. 1,422,415; July 11.
- Electrical heater resistance element. R. W. Reynolds. No. 1,422,130; July 11.
- Electrical transformers for regulating or varying the voltage of the current supplied therefrom. F. E. Berry. No. 1,422,653; July 11.
- Electrically-heated devices, Automatic means for controlling. A. F. Brown. No. 1,422,735; July 11.
- Electrodes, Clamp mounting for. R. H. Wappler. No. 1,422,396; July 11.
- Electromagnetic measuring apparatus. J. C. Stangier. No. 1,422,317; July 11.
- Electromagnetic switch, Retarded. A. M. Haslev. No. 1,422,702; July 11.
- Elevator: See—
Grain elevator.
- Elevator or carrier, Parcel and package. J. Collins. No. 1,422,673; July 11.
- Elevators and conveyers, Detector for. W. T. Donaldson. No. 1,422,091; July 11.
- Elevators, Safety device for. H. McGillivray. No. 1,422,774; July 11.
- Engine: See—
Internal-combustion engine.
- Engine, Air-cooled internal-combustion. R. Kronenberg. No. 1,422,719; July 11.
- Engine-starting device. J. Bijur. (Reissue.) No. 15,403; July 11.

- Engines, Automatic switch for circuits of internal-combustion. S. Stevens. No. 1,422,318; July 11.
- Engines, Counterbalance for the crank shafts of internal-combustion. F. O. Sterrett. No. 1,422,633; July 11.
- Engines, Cooling device for internal-combustion. C. Grunwald. No. 1,422,565; July 11.
- Engines, Cooling system for internal-combustion. W. H. Farr. No. 1,422,426; July 11.
- Engines, Ignition device for internal-combustion. F. A. Smith. No. 1,422,794; July 11.
- Engines, Power indicator for internal-combustion. H. Shephard. No. 1,422,485; July 11.
- Engines, Undercasing for motor-vehicle. R. D. Riddle. No. 1,422,622; July 11.
- Ethylene and other components from gaseous mixtures containing the same, Separating. G. O. Curme, Jr. No. 1,422,184; July 11.
- Excavating and loading machine. E. Keast. No. 1,422,767; July 11.
- Excavators, Saddle-block structure for. C. E. Gage. No. 1,422,259; July 11.
- Extruding machine. J. E. Heller. No. 1,422,356; July 11.
- Fare-recording apparatus. P. R. Forman. No. 1,422,686; July 11.
- Fastening device. H. F. C. and F. W. Schultz. No. 1,422,482; July 11.
- Feed box, Folding. M. Davis. No. 1,422,422; July 11.
- Feeding mechanism. J. Sharp. No. 1,422,229; July 11.
- Fender: See—
Automobile fender.
- Fertilizing elements from manure, Extracting. C. E. Gardan. No. 1,422,434; July 11.
- Filter-board box. J. L. Christensen. No. 1,422,540; July 11.
- Film holder. J. E. Rodriguez Serra. No. 1,422,785; July 11.
- Film-testing machine. G. L. Chanier. No. 1,422,665; July 11.
- Filter. M. Elrod. No. 1,422,190; July 11.
- Fire extinguisher. F. C. Bargar. No. 1,422,406; July 11.
- Firearm. C. G. Swebilius. Nos. 1,422,237-8; July 11.
- Flash light. C. W. Swingle. No. 1,422,239; July 11.
- Flexible coupling. G. A. Ungar. No. 1,422,638; July 11.
- Flour to improve its baking qualities, Aging wheaten. R. Hutchinson. No. 1,422,102; July 11.
- Fly exterminator. E. J. Marchand. No. 1,422,287; July 11.
- Flying machines, Controlling mechanism for. R. E. Mitton and W. M. Braley. No. 1,422,288; July 11.
- Folding frame, Covered. C. R. Kositzky. No. 1,422,450; July 11.
- Food machine. J. and H. Trust. No. 1,422,391; July 11.
- Frame: See—
Bag frame. Lens frame.
Folding frame. Truck side frame.
- Frame and spring members, Machine for assembling. C. H. Ziler. No. 1,422,326; July 11.
- Frame support. F. M. A'Hearn. No. 1,422,164; July 11.
- Friction and spanner wrench, Combined. J. A. Schleicher. No. 1,422,308; July 11.
- Friction driving device. H. C. Egerton. No. 1,422,550; July 11.
- Furnace: See—
Smelting furnace. Stove and furnace.
- Furnace construction. W. G. Wise. No. 1,422,160; July 11.
- Furnaces, Controlling device for boiler. R. F. Metcalfe. No. 1,422,369; July 11.
- Fuse. J. A. Nelson. No. 1,422,122; July 11.
- Fuse, Renewable. F. N. Conant. Nos. 1,422,419-20; July 11.
- Game device. H. J. Schumacher and F. Rice. No. 1,422,383; July 11.
- Garden tool. D. S. Dickie. No. 1,422,090; July 11.
- Garment hanger. C. S. Rattan. No. 1,422,782; July 11.
- Gas-analyzing apparatus. O. Rodhe. (Reissue.) No. 15,409; July 11.
- Gas-boosting regulator. P. Hoffman and F. C. Reed. No. 1,422,573; July 11.
- Gas engines, Valve mechanism for. E. H. Ryon. No. 1,422,138; July 11.
- Gas meters, Means for and method of proving. R. L. Dezendorf. No. 1,422,089; July 11.
- Gas producer. L. Fornas. No. 1,422,093; July 11.
- Gas producer. J. Wells. No. 1,422,643; July 11.
- Gases and gaseous substances, Method and apparatus for treating. A. B. Lamb. No. 1,422,211; July 11.
- Gases, Apparatus for automatic and continuous analysis and recording of. W. D. R. Brown and W. T. Pickston. No. 1,422,080; July 11.
- Gases, Discharging smelter. W. H. Howard. No. 1,422,575; July 11.
- Gaseous hydrocarbon mixtures, Treating. G. O. Curme, Jr. No. 1,422,182; July 11.
- Gaseous mixtures, Treating. G. O. Curme, Jr. No. 1,422,183; July 11.
- Gasoline soldering iron. W. Cohen. No. 1,422,740; July 11.
- Gate: See—
Segment gate.
- Gauge: See—
Lever-limit gauge. Pressure gauge.
Measuring gauge.
- Gauge. I. F. Woodrow. No. 1,422,161; July 11.
- Gauge-cock-operating tool. S. T. Kunkel. No. 1,422,771; July 11.
- Gauge, Pressure. A. B. Low. No. 1,422,278; July 11.
- Gear, Cushioned. A. C. Hamilton. No. 1,422,440; July 11.
- Gear cutting, slotting, and like machine. J. H. Melloy and W. J. Owen. No. 1,422,462; July 11.
- Gear-shift lock. G. B. M. Gray. No. 1,422,353; July 11.
- Gear, Variable-speed. P. A. Amundson. No. 1,422,072; July 11.
- Gear wheel. J. L. Florin. No. 1,422,351; July 11.
- Gearing. A. E. Schuette. No. 1,422,792; July 11.
- Generators, Coking chamber for. F. Jaworski. No. 1,422,206; July 11.
- Gig. J. D. Woods and D. J. Palmer. No. 1,422,805; July 11.
- Glass holder, Drinking-. B. V. Czarnecki. No. 1,422,676; July 11.
- Grader. H. L. Dever. No. 1,422,754; July 11.
- Grading machine. H. L. Dever. No. 1,422,753; July 11.
- Gradometer. D. P. Corcoran. No. 1,422,743; July 11.
- Grain elevator. O. H. Brown. No. 1,422,534; July 11.
- Grain-feeding spreader. R. L. Owens. No. 1,422,297; July 11.
- Grain separator. R. L. Owens. Nos. 1,422,298-9; July 11.
- Grease retainer. S. B. Collier. No. 1,422,741; July 11.
- Grinder, Ignition-point. D. H. Greenfield. No. 1,422,097; July 11.
- Grinding and lapping machine. F. C. Weaver. No. 1,422,505; July 11.
- Grinding mechanism. A. O. S. Taylor. No. 1,422,635; July 11.
- Grinding wheel. H. E. Harris. No. 1,422,200; July 11.
- Gripping and pulling tool. H. Dalitz. No. 1,422,185; July 11.
- Gripping device. J. F. Moody. No. 1,422,289; July 11.
- Gun, Fort disappearing. C. Ottolini. No. 1,422,296; July 11.
- Gun with independent sighting line. W. Heilemann. No. 1,422,099; July 11.
- Handle: See—
Tool handle.
- Hair clipper. N. V. Ghetia. No. 1,422,352; July 11.
- Hair curler and waver. A. V. P. Martin. No. 1,422,593; July 11.
- Hammer. C. Hansen. No. 1,422,262; July 11.
- Hammer crusher. W. H. Hartman. No. 1,422,761; July 11.
- Hand, Jointed artificial. P. A. Ingold. No. 1,422,714; July 11.
- Handbag catch. B. P. Cullen and M. J. Wochna. No. 1,422,748; July 11.
- Handle. R. W. Griswold. No. 1,422,355; July 11.
- Handle. J. F. Smart. No. 1,422,630; July 11.
- Hanger: See—
Garment hanger.
- Harness hook. H. W. Rager. No. 1,422,128; July 11.
- Harrow. F. G. Biggerstaff. No. 1,422,173; July 11.
- Hay loader. P. L. Forbes. No. 1,422,432; July 11.
- Haystacker. J. F. Chladek. No. 1,422,667; July 11.
- Haystacker, Automatic. L. and C. Oertli and H. Turnell. No. 1,422,611; July 11.
- Headed machine parts, Method and apparatus for making. D. E. Johnson and T. A. Madsen. No. 1,422,274; July 11.
- Headlight and direction indicator, Combined. W. H. Sheehan. No. 1,422,629; July 11.
- Headlight, Movable. H. D. Boughter. No. 1,422,732; July 11.
- Heat-radiating device. E. G. McGlauffin. No. 1,422,282; July 11.
- Heater: See—
Portable heater. Water heater.
- Heating apparatus. A. H. Des Parois. Nos. 1,422,087-8; July 11.
- Heating element. M. Schey. No. 1,422,379; July 11.
- Heating system. G. Gabet. No. 1,422,556; July 11.
- Heel, Spring. E. L. White. No. 1,422,511; July 11.
- Hinge. W. C. Baxter. No. 1,422,651; July 11.
- Hogs, Singeing. R. D. MacLaurin. No. 1,422,217; July 11.
- Hood fastener. H. B. Gape. No. 1,422,691; July 11.
- Hook: See—
Harness hook. Logging hook.
- Hosiery, Means for manufacturing castings for shaping and drying. A. E. Cottom. No. 1,422,675; July 11.
- Hutch. J. F. McKim. No. 1,422,283; July 11.
- Hydrocarbon burner. F. V. Detwiler. No. 1,422,752; July 11.
- Hydrocarbon motor. H. D. Church. No. 1,422,338; July 11.
- Hydrocarbon motors, Vibration damper for. J. G. Vincent. No. 1,422,324; July 11.
- Ice-cream-dispensing machine. W. J. Guerin. No. 1,422,198; July 11.
- Ignition system. W. O. Pennington. (Reissue.) No. 15,408; July 11.
- Illuminated signal. C. A. Christofferson. No. 1,422,669; July 11.
- Indicating and recording apparatus. A. C. Johnson. No. 1,422,207; July 11.
- Inductive-interference-suppression device. H. S. Osborne. No. 1,422,470; July 11.
- Ingot mold. S. E. Hitt and J. I. Peyton. No. 1,422,572; July 11.

- Insulating and resistant articles and products thereof.
Manufacturing. F. T. Lahey. No. 1,422,720; July 11.
Internal combustion engine. W. J. Snadecki. No. 1,422,143; July 11.
Iris diaphragm. P. J. Marks. No. 1,422,461; July 11.
Iron. *See*—
Gasoline soldering iron. Soldering iron.
Iron and steel. Producing. W. E. F. Bradley. No. 1,422,733; July 11.
Iron bar. Rolled. H. Gockel. No. 1,422,694; July 11.
Jack. *See*—
Lifting jack.
Jackscrew. J. M. Lydick. No. 1,422,279; July 11.
Jar holder. Fruit-. L. H. Shank. No. 1,422,626; July 11.
Joint. *See*—
Rail joint.
Kapok and other fibers incombustible. Method to render.
R. C. Valls. No. 1,422,242; July 11.
Key. *See*—
Switching key.
Key-duplicating machine. W. C. Wetherholt. No. 1,422,155; July 11.
Keyway locator. K. W. Couse. No. 1,422,746; July 11;
Kiln. *See*—
Dry kiln.
Kiln, Dry. N. H. and H. L. Henderson. No. 1,422,202; July 11.
Kindling device. H. Grossmann. No. 1,422,698; July 11.
Kitchen. Rolling. J. Morrison. No. 1,422,603; July 11.
Knockdown table. J. D. Adams. No. 1,422,246; July 11.
Knurling tool. Self-opening. E. Bach. No. 1,422,649; July 11.
Ladder and manufacturing same. W. A. Bilger and A. C. Walker. No. 1,422,654; July 11.
Lamp and starting same. Inclosed-arc. E. Friedrich. No. 1,422,553; July 11.
Lamp. Fender. H. J. Berringer. No. 1,422,528; July 11.
Lamp ring. W. A. Bell. No. 1,422,525; July 11.
Lamp. Signal. C. A. Christofferson. No. 1,422,668; July 11.
Lamps. Anode for luminous arc. C. A. B. Halvorson, Jr. No. 1,422,439; July 11.
Lamps. Apparatus for lighting and extinguishing gas burners of street. P. Bernard. No. 1,422,249; July 11.
Lamps. Leading-in wires for incandescent electric. F. Hoge. No. 1,422,443; July 11.
Lamps. Renewal of the filaments in metal-filament electric. S. Coxon and W. A. Williams. No. 1,422,747; July 11.
Latch. T. A. Watts. No. 1,422,504; July 11.
Lathe headstock. G. E. Greenleaf and C. F. Randolph. No. 1,422,098; July 11.
Lawn edger. B. C. Goehenour. No. 1,422,693; July 11.
Lemon squeezer. W. E. Gray. No. 1,422,196; July 11.
Lens frame. Ophthalmic test-. M. Poser. No. 1,422,303; July 11.
Level, plumb, square, and measure. Combined. J. Stanley. No. 1,422,231; July 11.
Level-registering means. F. W. Merritt and A. E. Watts. No. 1,422,118; July 11.
Lever-limit gauge. Indicating-. M. Bartholdy. No. 1,422,169; July 11.
License-number holder and illuminator. Vehicle. J. E. Rutherford. No. 1,422,480; July 11.
Lifting jack. A. D. Powell. No. 1,422,781; July 11.
Light. *See*—
Flash light.
Light. Projecting device for beams of. S. Salto. No. 1,422,307; July 11.
Lighting-accessory suspension. W. H. Spencer. No. 1,422,796; July 11.
Lighting unit. R. D. Wardell. No. 1,422,244; July 11.
Liquid container. B. F. Germani. No. 1,422,559; July 11.
Liquors with SO₂. Gassing. F. M. Allen. No. 1,422,327; July 11.
Loading and transporting apparatus. L. B. Boreiko. No. 1,422,252; July 11.
Lock. *See*—
Automobile lock. Doorknob lock.
Car-door lock. Gear-shift lock.
Cylinder lock. Permutation lock.
Desk-drawer lock. Pin-tumbler lock.
Door lock. Valve lock.
Lock nut. H. L. Davis. No. 1,422,750; July 11.
Locker. Air and water service hose. C. E. Hill. No. 1,422,559; July 11.
Locomotive cranes. Control means for. P. Burke. No. 1,422,082; July 11.
Locomotive. Turbine-driven. F. Ljungström. No. 1,422,111; July 11.
Locomotives. Equalizing gear for. E. M. Shannon. No. 1,422,793; July 11.
Logging hook. P. H. Shaffer. No. 1,422,228; July 11.
Looms. Filling-end clearer for filling-replenishing. A. E. Stafford. No. 1,422,727; July 11.
Looms. Filling-end-withdrawing means for weft-replenishing. E. S. Stimpson. No. 1,422,728; July 11.
Lure. Trolling. T. G. McClanahan. No. 1,422,457; July 11.
Magnet machines. Armature for. J. R. Stark. No. 1,422,145; July 11.
Marking devices. Type-holding means for. A. G. Hupfel. No. 1,422,268; July 11.
Matrices. Manufacturing. J. L. Rousseau. No. 1,422,137; July 11.
Matrix manufacture. J. L. Rousseau. No. 1,422,136; July 11.
Measuring device. E. H. Lord. No. 1,422,112; July 11.
Measuring gauge. W. Humphreys. No. 1,422,576; July 11.
Mechanical movement. J. G. Eklund. No. 1,422,682; July 11.
Memorandum pad, stand, and pad sheets. G. W. Smith. No. 1,422,489; July 11.
Metal wheel. G. G. Barry. No. 1,422,168; July 11.
Metallic structure. Flexible. H. Maxenchs. No. 1,422,776; July 11.
Metallurgical process. W. E. F. Bradley. No. 1,422,734; July 11.
Mimeograph attachment. W. L. Majors. No. 1,422,286; July 11.
Mirror structure. C. L. Fitchet. No. 1,422,685; July 11.
Mixers. Safety clutch device for. F. X. Laurerbar. No. 1,422,213; July 11.
Mold. *See*—
Ingot mold.
Mold. E. J. Kukac. No. 1,422,108; July 11.
Molded articles of pure cellulose. Producing. M. G. Oliver. No. 1,422,469; July 11.
Mop frame and handle coupling. J. A. Meinhardt. No. 1,422,368; July 11.
Motor. *See*—
Hydrocarbon motor.
Motor controller. T. H. Rodman. No. 1,422,131; July 11.
Motor-cycle guard. R. Stendel. No. 1,422,632; July 11.
Muffler. F. A. Whitten. No. 1,422,403; July 11.
Muffler cut-out. J. M. Morse. No. 1,422,466; July 11.
Multiple switch. A. J. Eaves. No. 1,422,549; July 11.
Munition casing. V. Mauck. No. 1,422,219; July 11.
Neckscarfs. Attachment for. M. Goldberg. No. 1,422,758; July 11.
Necktie retainer. L. B. Brooks. No. 1,422,658; July 11.
Notes. System of keeping. C. H. Goodyear. No. 1,422,696; July 11.
Oil press. G. A. Sauer. No. 1,422,225; July 11.
Oil shales. Working. W. W. Hoover and T. E. Brown. No. 1,422,204; July 11.
Oil-well packer. C. M. Heeter. No. 1,422,704; July 11.
Ordnance. Ammunition hoisting and loading apparatus for. A. T. Dawson and G. T. Buckham. No. 1,422,678; July 11.
Ore products. Apparatus for separating the liquid and solid components of mixtures of liquids and crushed or ground. A. J. Arbuckle. No. 1,422,514; July 11.
Ore separator. E. R. Brown. No. 1,422,736; July 11.
Ores or the like. Roasting complex zinc sulphide. F. W. Harbord. No. 1,422,701; July 11.
Ornamenting device and method. H. C. Mitchell. No. 1,422,599; July 11.
Overhead-wire transport system. W. L. Barton. No. 1,422,650; July 11.
Oxysalt composition. C. Catlett. No. 1,422,337; July 11.
Pad. *See*—
Truss pad.
Paint. A. C. Holzapfel. No. 1,422,711; July 11.
Paper fastener. A. S. Tonkin. No. 1,422,148; July 11.
Paper-making machine. Cylinder. W. S. Crandell. No. 1,422,541; July 11.
Paper stock. Method of and apparatus for disintegrating. M. C. J. Billingham. No. 1,422,251; July 11.
Permutation lock. J. O. Wilson. No. 1,422,645; July 11.
Paving block. C. L. Sullivan and J. D. Fletcher. No. 1,422,193; July 11.
Paving block and roadway constructed therefrom. J. D. Fletcher. No. 1,422,551; July 11.
Permutation block. J. O. Wilson. No. 1,422,645; July 11.
Phonograph. P. J. Landin. No. 1,422,453; July 11.
Phonograph. J. Shaw. No. 1,422,310; July 11.
Phonograph. Automatic. H. Swain. No. 1,422,321; July 11.
Phosphoric acid. Producing. E. W. Guernsey and J. Y. Yee. No. 1,422,699; July 11.
Photographic film rack. G. C. Cross. No. 1,422,341; July 11.
Photographic shutter. P. J. Marks. No. 1,422,460; July 11.
Piano. Automatic player. W. Lane. No. 1,422,276; July 11.
Piano player. Pneumatic. W. Lane. No. 1,422,275; July 11.
Pianos. Tracking device for player. J. P. Hulder. No. 1,422,713; July 11.
Picture-projecting apparatus. Shutter for motion-. J. B. Blanton. No. 1,422,410; July 11.
Pictures. Screen for motion. J. F. R. Troeger. No. 1,422,149; July 11.
Pin. A. Nonnenmann. No. 1,422,607; July 11.
Pin-tumbler lock. P. F. Augenbraun. Nos. 1,422,515-20; July 11.
Pin-tumbler lock. M. C. Maxwell. No. 1,422,594; July 11.
Pin-tumbler lock. F. E. Thompson. No. 1,422,497; July 11.
Pipe. H. N. Matzen. No. 1,422,367; July 11.
Pipe and tube tester. J. C. Bareiss. No. 1,422,522; July 11.
Pipe wrench. W. Dyorak. No. 1,422,548; July 11.
Pipe wrench. H. Parker. No. 1,422,302; July 11.
Piston. H. D. Waterhouse. No. 1,422,729; July 11.
Piston and piston ring. H. B. Johnston. No. 1,422,273; July 11.

- Piston-ring compressor. G. Garbeth. No. 1,422,557; July 11.
- Piston rings, Antislip spring for. H. C. Phelps and J. C. Fox. No. 1,422,780; July 11.
- Pitcher, Batter. A. J. Schultz. No. 1,422,382; July 11.
- Plastic composition. E. E. Schumacher. No. 1,422,483; July 11.
- Plastic material, Key base for. J. O. Fowler. (Reissue.) No. 15,406; July 11.
- Plate and thread guide, Combination. G. C. L. Tisch. No. 1,422,799; July 11.
- Plate-bending press. J. A. Perony. No. 1,422,779; July 11.
- Plow, Tractor. L. Emerson. No. 1,422,350; July 11.
- Plows, Subsoil attachment for. H. H. Colby. No. 1,422,418; July 11.
- Plug, Electric multiple-connection. C. H. Tomlinson. No. 1,422,241; July 11.
- Pocketknife. J. Johnson. No. 1,422,363; July 11.
- Poker, Automatic. T. M. Haugh, L. C. Schilling, and J. W. Finch. No. 1,422,442; July 11.
- Portable heater. L. O. Koch. No. 1,422,449; July 11.
- Posts, poles, or rods, Mounting naps or caps for. A. J. Schults. No. 1,422,226; July 11.
- Potassium salts from bitterns, Extracting. I. E. Harlow. No. 1,422,571; July 11.
- Potato cutter. H. L. Beuler. No. 1,422,731; July 11.
- Potato-peeling machine. H. W. Hodgdon and P. F. Green. No. 1,422,708; July 11.
- Powder distributor. C. Browa. No. 1,422,253; July 11.
- Power propulsion device. M. C. South. No. 1,422,384; July 11.
- Power-transmission apparatus, Electromagnetic. R. W. Van Norden. No. 1,422,243; July 11.
- Power-transmission mechanism. W. I. Wheeler. No. 1,422,507; July 11.
- Power-transmission mechanism. W. I. Wheeler. No. 1,422,509; July 11.
- Press: See—
Oil press. Plate-bending press.
- Press feeding mechanism. W. H. Needham. No. 1,422,605; July 11.
- Pressure regulator, Governor-operated. C. W. Lerner. No. 1,422,212; July 11.
- Printing machines, Tape or web. O. L. Chesnutt. No. 1,422,666; July 11.
- Printing plates, Forming celluloid. F. C. Goldenbaum. No. 1,422,695; July 11.
- Projectiles, Electric apparatus for propelling. A. L. O. Fauchon-Villeplée. No. 1,422,427; July 11.
- Projectors, Focusing mechanism for. S. Stalberg. No. 1,422,385; July 11.
- Propeller. F. W. Lambert. No. 1,422,109; July 11.
- Puller: See—
Cotter-pin puller.
- Pulley. S. R. Swain. No. 1,422,389; July 11.
- Pulley adapter. G. W. Hughes. No. 1,422,360; July 11.
- Pulley construction, Two-piece. F. Haskel. No. 1,422,263; July 11.
- Pump. H. M. Green. No. 1,422,759; July 11.
- Pump, Deep-well. E. D. McDonald. No. 1,422,588; July 11.
- Purse and vanity-case frame, Combined. I. J. Levy. No. 1,422,724; July 11.
- Rack: See—
Photographic film rack.
- Radiator bracket, Wall. G. C. Clanton. No. 1,422,177; July 11.
- Radiator cover. W. S. Runnels. No. 1,422,306; July 11.
- Radiators, Drainage tank for automobile. W. H. Day. No. 1,422,679; July 11.
- Radiators, Locking cap for automobile. H. S. Pardee. No. 1,422,372; July 11.
- Radiometer. M. W. Ryan and M. Uttendorfer. No. 1,422,378; July 11.
- Raft, Life. H. W. Broady. No. 1,422,657; July 11.
- Rail joint, Welded. E. M. T. Ryder. No. 1,422,623; July 11.
- Rails, Anchor and clip for. F. W. Cooper and H. Steadworthy. No. 1,422,340; July 11.
- Railway rails, Fishplate for. R. N. Dithmer. No. 1,422,187; July 11.
- Railway, Suspended high-speed. R. Wagner. No. 1,422,394; July 11.
- Railway-switch stand. L. Facciuto, Sr. No. 1,422,191; July 11.
- Ratchet wrench. R. A. Millen. No. 1,422,121; July 11.
- Reamer, Expanding. J. J. Jasperson. No. 1,422,205; July 11.
- Receptacle, flexible conduit, gas mask, and the like. C. A. Cleghorn. No. 1,422,670; July 11.
- Refrigerator, Iceless. C. L. Kik. Nos. 1,422,364-5; July 11.
- Register: See—
Autographic register.
- Regulator: See—
Draft regulator. Pressure regulator.
- Gas-booster regulator.
- Regulating and control apparatus and system. F. W. Meyer. No. 1,422,120; July 11.
- Repair tongue hound, Adjustable. F. J. Dultmeier. No. 1,422,681; July 11.
- Retaining clip. J. J. O'Brien. No. 1,422,610; July 11.
- Retort. L. L. Summers. No. 1,422,634; July 11.
- Reversing mechanism. W. I. Wheeler. No. 1,422,508; July 11.
- Rim. O. H. Jobski. No. 1,422,715; July 11.
- Rim boards, Producing. A. A. Adamson. No. 1,422,648; July 11.
- Ring: See—
Lamp ring.
- Rivets, Device for inserting. J. Schuette. No. 1,422,331; July 11.
- Roadway, Portable. A. C. Luettgert and E. H. Meiklejohn. No. 1,422,280; July 11.
- Rock drill, Tubular. H. Hundrieser. No. 1,422,361; July 11.
- Roofing. J. M. Berdan. No. 1,422,526; July 11.
- Roost, Poultry. F. C. Schlinglof. No. 1,422,624; July 11.
- Rope tightener. W. L. Witte. No. 1,422,804; July 11.
- Rotor spider. J. Burke. No. 1,422,414; July 11.
- Rubber articles, Mold adapted for use in vulcanizing. W. F. Clark. No. 1,422,084; July 11.
- Rubber articles, Treating. E. C. Taylor. No. 1,422,147; July 11.
- Rubber, Composition for treating manufactured. R. B. Martin. No. 1,422,115; July 11.
- Rubber-forcing machine. J. W. Gomersall. No. 1,422,561; July 11.
- Rubber globe. E. M. Walters. No. 1,422,642; July 11.
- Rubber heel. L. Kaplan. No. 1,422,446; July 11.
- Rubber or rubberized fabric, Apparatus for vulcanizing articles of. P. J. Knaus. No. 1,422,209; July 11.
- Rubber tiling, Making. W. J. Kent. No. 1,422,579; July 11.
- Rug-scouring machine. K. C. and J. H. Jones. No. 1,422,445; July 11.
- Rules and borders, Machine for making ornamental. M. M. Breit. No. 1,422,532; July 11.
- Safety screen. J. L. Bernard. No. 1,422,409; July 11.
- Sash locking and balancing mechanism. A. C. Wheelock. No. 1,422,399; July 11.
- Saw-filing machine. L. S. Sherwood. No. 1,422,486; July 11.
- Saws, Guard for circular. G. E. H. Spiller. No. 1,422,316; July 11.
- Sawing natural deposits, Apparatus for. E. B. Starr and H. E. Marsh. No. 1,422,386; July 11.
- Scale. H. F. Kinser. No. 1,422,104; July 11.
- Scale, Automatic. H. Cameron. No. 1,422,664; July 11.
- Scoring and trimming machine. C. C. Gamm. No. 1,422,095; July 11.
- Screen: See—
Window screen.
- Screw driver. F. V. Borick. No. 1,422,411; July 11.
- Seesaw. T. E. Jordan. No. 1,422,766; July 11.
- Segment gate. T. Becher. No. 1,422,076; July 11.
- Separating and classifying apparatus. L. H. Falley. No. 1,422,092; July 11.
- Separating or sorting apparatus. C. J. Lane. No. 1,422,807; July 11.
- Separator: See—
Grain separator. Ore separator.
- Settling and septic tank. E. F. Cook. No. 1,422,674; July 11.
- Sewing machines, Folder for. J. E. Chalmers. No. 1,422,176; July 11.
- Sewing machines, Motor drive for. H. Maimin. No. 1,422,218; July 11.
- Sewing machines, Stop motion for shoe. F. E. Valois. No. 1,422,639; July 11.
- Sewing machines, Strip guiding and controlling attachment for. J. C. Ringe. No. 1,422,808; July 11.
- Shaft coupling. H. D. Church. No. 1,422,339; July 11.
- Shears. G. L. Rogers. No. 1,422,786; July 11.
- Sheet-metal plates, Apparatus used in the manufacture of. D. Davies and D. Jones. No. 1,422,085; July 11.
- Ship for transporting raw products. H. Greffenius. No. 1,422,354; July 11.
- Shoe sole. P. Jones. No. 1,422,716; July 11.
- Shoes, Repair tip for. N. D'Andrea. No. 1,422,543; July 11.
- Sieve shaker. B. Stankovich. No. 1,422,230; July 11.
- Sign and its supports. W. J. Wark. No. 1,422,502; July 11.
- Signal: See—
Illuminated signal. Traffic signal.
- Signal-indicator system. H. C. Eigabroadt. No. 1,422,349; July 11.
- Signaling mechanism. C. E. Beach. No. 1,422,523; July 11.
- Silencer. W. T. Percy. No. 1,422,373; July 11.
- Silk, Manufacture of artificial. E. Brunnert. No. 1,422,412; July 11.
- Skirt, Athletic. A. Harmon. No. 1,422,441; July 11.
- Slack adjuster, Automatic. H. A. Wahlert and J. E. Redford. No. 1,422,499; July 11.
- Sled, Motor-driven. F. W. Denbrook. No. 1,422,751; July 11.
- Slub catcher. F. Jarry. No. 1,422,271; July 11.
- Smelting furnace, Vertical. F. Fiechtl. No. 1,422,684; July 11.
- Smoker's table. J. Watson. No. 1,422,397; July 11.
- Snap fasteners, Package for. L. J. Stern. No. 1,422,233; July 11.
- Snowplow. E. Clayborne. No. 1,422,417; July 11.
- Sodium chromate, Manufacture of chromic oxide and sodium sulphide from. C. J. Head. No. 1,422,703; July 11.
- Soldering iron. H. F. Hammond. No. 1,422,357; July 11.

- Solid materials with liquids, Method and apparatus for mixing. O. D. Cunningham. No. 1,422,421; July 11.
- Sorting machine. A. Van Cott and J. Evans. No. 1,422,800; July 11.
- Spark timer and oil pump, Combined. J. McClelland. No. 1,422,725; July 11.
- Spinning machines, Attachment for. A. J. Cote and A. Cote. No. 1,422,745; July 11.
- Splicing tool. E. J. Williams. No. 1,422,803; July 11.
- Spoke-tightening shim. J. D. Tucker. No. 1,422,637; July 11.
- Spooling machines, Tension device for. S. Taylor and F. Jarry. No. 1,422,240; July 11.
- Spray Bath. J. A. Mulherin. No. 1,422,291; July 11.
- Spring: See—
Vehicle spring.
- Stain composition. A. Murray. No. 1,422,292; July 11.
- Stamp. O. B. Pickering. No. 1,422,474; July 11.
- Stamp receiver. E. M. Walsh. No. 1,422,152; July 11.
- Stand: See—
Railway-switch stand.
- Stand and table, Convertible. J. B. Ogden. No. 1,422,613; July 11.
- Steam boilers, Self-starting injector for. J. Hall. No. 1,422,199; July 11.
- Steam ejector. M. C. A. Leblanc. No. 1,422,582; July 11.
- Steam trap. C. H. Atkins. No. 1,422,069; July 11.
- Steering mechanism. R. A. Mack. No. 1,422,284; July 11.
- Steering wheel. W. L. Tobias. No. 1,422,323; July 11.
- Stop motion. P. E. Valois. No. 1,422,640; July 11.
- Stove and furnace. J. B. Gohmann. No. 1,422,195; July 11.
- Strainer for sugar juices. M. E. Carter. No. 1,422,737; July 11.
- Stringed instruments, Ribbon attachment for. J. Richter. No. 1,422,784; July 11.
- Stringed instruments, Tensioning peg for. K. Caspari. No. 1,422,738; July 11.
- Suction cleaner. J. B. Kirby. No. 1,422,105; July 11.
- Sugar, Manufacture of grape. P. W. Allen. No. 1,422,328; July 11.
- Sulphonating carbon compounds. A. R. Grob and C. C. Adams. No. 1,422,564; July 11.
- Sulphur-burning apparatus. H. D. Wells. No. 1,422,801; July 11.
- Swage, Casing. F. H. Hatfield. No. 1,422,762; July 11.
- Sweeper, Street. E. K. and P. C. Ward. No. 1,422,501; July 11.
- Swimming device. G. G. Allenbaugh. No. 1,422,071; July 11.
- Switch: See—
Electromagnetic switch. Multiple switch.
- Switching key. L. W. Kelsay. No. 1,422,447; July 11.
- Table: See—
Convertible stand and table. Knockdown table.
Smoker's table.
- Folding table.
- Table, Folding. H. B. Smith. No. 1,422,313; July 11.
- Table slide, Extension. H. N. Smith. No. 1,422,142; July 11.
- Tackle, Hoisting. O. J. Boettcher. No. 1,422,174; July 11.
- Talking machine. D. J. Hood. No. 1,422,712; July 11.
- Talking machines. F. C. Hinckley. No. 1,422,266; July 11.
- Talking machines, Record cabinet for. J. B. Ogden. No. 1,422,612; July 11.
- Tank: See—
Dispensing tank. Water tank.
Settling and septic tank.
- Tank construction. A. A. Kramer. No. 1,422,107; July 11.
- Tank, Dispensing. W. H. Opitz. No. 1,422,124; July 11.
- Tank filling and discharge fittings, Bung for. J. Darling and W. W. Curry. No. 1,422,342; July 11.
- Teletomotor. C. A. Helfer. No. 1,422,705; July 11.
- Telephone attachment. T. W. Small. No. 1,422,487; July 11.
- Terminal clamp, Loop-forming. G. P. Bump. No. 1,422,660; July 11.
- Tester. W. P. Cook. No. 1,422,742; July 11.
- Textile fibers for spinning, Process of and apparatus for. G. C. Laurency and M. Vigier. No. 1,422,581; July 11.
- Thermal cut-out device. G. H. Whittingham. No. 1,422,802; July 11.
- Thermocouple. T. G. Coghlan. No. 1,422,672; July 11.
- Thread cleaner. W. J. Klotz. No. 1,422,106; July 11.
- Thread cutter. R. Becker. No. 1,422,407; July 11.
- Thread-cutting tool. N. Benoit. No. 1,422,652; July 11.
- Thread-milling machine. C. H. Schurr and E. J. Lees. (Reissue.) No. 15,410; July 11.
- Thrust bearing. D. E. Lewellen. No. 1,422,585; July 11.
- Timber, Method of and apparatus for treating. A. Meyer and P. R. Walsh. No. 1,422,119; July 11.
- Time recorder. C. Pullman. No. 1,422,477; July 11.
- Tinning machines, Feeding mechanism for. D. Buccicone. No. 1,422,535; July 11.
- Tire. W. G. Fording. (Reissue.) No. 15,405; July 11.
- Tire, Automobile. F. J. Leisse. No. 1,422,723; July 11.
- Tire beads, Apparatus for solutioning. T. A. Burns. No. 1,422,083; July 11.
- Tire carrier, Spare. G. H. Forsyth. No. 1,422,094; July 11.
- Tire casing. D. Moriarty. No. 1,422,290; July 11.
- Tire fabric, Making rubberized. F. A. Krusemark. No. 1,422,451; July 11.
- Tire for vehicles, Metal-sheathed pneumatic. G. F. Schriber. No. 1,422,791; July 11.
- Tire, Pneumatic. W. McEwen. No. 1,422,113; July 11.
- Tire, Two-in-one rubber. W. O'Connell. No. 1,422,123; July 11.
- Tires, Cap gauge for pneumatic. F. A. and J. L. Conrad. No. 1,422,256; July 11.
- Tires, Guard chain for pneumatic. F. L. Merkle. No. 1,422,117; July 11.
- Tires, Making. W. B. Burke. No. 1,422,537; July 11.
- Tires, Pressure-signaling device for. W. F. Arndt. No. 1,422,068; July 11.
- Tires, Repairing patch for pneumatic. A. Thiele. No. 1,422,495; July 11.
- Tongs for grasping plates and dishes, Automatically clamping. R. A. Jeammot-Leyrit. No. 1,422,215; July 11.
- Tool. W. H. Cameron. No. 1,422,538; July 11.
- Tool-dropping machine, Automatic. C. R. Boyce. No. 1,422,531; July 11.
- Tool handle. W. H. Stevens. No. 1,422,387; July 11.
- Tool holder. J. C. Alquist. No. 1,422,247; July 11.
- Tool holder. G. H. Stahl. No. 1,422,491; July 11.
- Toy. S. S. K. Biroscak. No. 1,422,334; July 11.
- Toy. L. Martocci-Pisculli. No. 1,422,775; July 11.
- Toy. A. C. and H. E. Schloth. No. 1,422,789; July 11.
- Toy machine gun. J. B. Van Doren. No. 1,422,392; July 11.
- Toy, Sparking. L. V. Aronson. No. 1,422,075; July 11.
- Track brace. W. Dunn. No. 1,422,425; July 11.
- Tracks in place, Means for securing overhead. E. J. G. Phillips. No. 1,422,473; July 11.
- Traction coupling. J. C. Reuse. No. 1,422,129; July 11.
- Tractor. L. M. Gardiner. No. 1,422,558; July 11.
- Tractor. H. C. Reid. No. 1,422,375; July 11.
- Tractor cleat. C. Robnett. No. 1,422,377; July 11.
- Tractor having four steering driving wheels. E. Schneider. No. 1,422,380; July 11.
- Tractor, Motor. E. Grübler. No. 1,422,438; July 11.
- Tractors for agricultural purposes, Attachment for converting motor-driven chassis into. J. Hodgson. No. 1,422,709; July 11.
- Traffic signal. J. D. Coward. No. 1,422,179; July 11.
- Traffic signal. W. A. Koch. No. 1,422,210; July 11.
- Trammel. W. Douglas. No. 1,422,345; July 11.
- Transmission mechanism. W. I. Wheeler. No. 1,422,510; July 11.
- Trap: See—
Animal trap. Steam trap.
- Tree holder. G. B. Powers. No. 1,422,304; July 11.
- Truck, Disk. E. E. Johannes and R. D. Dunkerton. No. 1,422,362; July 11.
- Truck, Hand. C. O. Carlson. No. 1,422,254; July 11.
- Truck, Portable. M. M. Wood. No. 1,422,730; July 11.
- Truck, Railway. S. A. Mathers. No. 1,422,116; July 11.
- Truck side frame. G. A. Anderson. No. 1,422,074; July 11.
- Trucks, Dumping mechanism for. J. A. Beebe. No. 1,422,077; July 11.
- Trucks, Loading and unloading means and portable body for. A. F. Callison. No. 1,422,663; July 11.
- Truss pad. H. A. Warren. No. 1,422,153; July 11.
- Tube-closing machine. I. W. Weppio. No. 1,422,644; July 11.
- Tubular elements, Expandible attaching means for connecting. A. J. Schultz. No. 1,422,227; July 11.
- Turbine, Reversible fluid-pressure. J. W. McGovern. No. 1,422,458; July 11.
- Type-casting machines, Matrix and distributing apparatus for. A. Becker. No. 1,422,333; July 11.
- Typewriter keys, Cover for. O. A. Hokason. No. 1,422,267; July 11.
- Typewriters of any make, Apparatus for inking ribbons for. O. Frankenbüsch. No. 1,422,757; July 11.
- Typewriting machine. R. Fries. No. 1,422,433; July 11.
- Typewriting machine. J. Phelps. No. 1,422,617; July 11.
- Underframe and draft-arm connection. G. N. Goodin. No. 1,422,562; July 11.
- Undergarment. C. R. McFarland. No. 1,422,281; July 11.
- Undergarment. E. B. Mower. No. 1,422,604; July 11.
- Underreamer. J. Swan, Jr. No. 1,422,236; July 11.
- Unloader, Multistage. G. M. Richards. No. 1,422,376; July 11.
- Utensil, Cooking. B. L. Wever. No. 1,422,156; July 11.
- Utensil, Electrically-heated. J. F. Lamb. No. 1,422,721; July 11.
- Valve. R. P. Cooley. No. 1,422,178; July 11.
- Valve and piston, Combined. F. Stickel. No. 1,422,234; July 11.
- Valve for compressors, Clearance. W. Prellwitz. No. 1,422,476; July 11.
- Valve for steam engines. G. Groenewegen. No. 1,422,437; July 11.
- Valve lock. J. Cathrill. No. 1,422,336; July 11.
- Valve, Piston globe. E. C. Davies. No. 1,422,343; July 11.
- Vaults and similar purposes, Plate for use in lining burglar-proof. F. J. Napolitan. No. 1,422,295; July 11.
- Vehicle, Child's. N. Chapdelaine. (Reissue.) No. 15,404; July 11.
- Vehicle curtain fastener. C. S. Applas. No. 1,422,513; July 11.
- Vehicle hoist device, Motor. F. H. Dewey. No. 1,422,344; July 11.
- Vehicle, Motor. F. J. Drunar. No. 1,422,346; July 11.
- Vehicle spring. H. B. Dipworth. No. 1,422,755; July 11.

- Vehicle suspension. R. Guillery. No. 1,422,567; July 11.
 Vehicle suspension. B. Liebowitz. Nos. 1,422,586-7; July 11.
 Vehicle wheel. N. M. Robinson. No. 1,422,479; July 11.
 Vehicle wheels, Automobile sand and mud dog for attaching to. D. S. Blackwell. No. 1,422,078; July 11.
 Vehicles, Auxiliary propelling means for motor. F. B. Snyder. No. 1,422,795; July 11.
 Vehicles, Coupling member for. H. Eckertz. No. 1,422,189; July 11.
 Vehicles, Differential driving mechanism for motor. J. W. White. No. 1,422,401; July 11.
 Vehicles, Direction indicator for motor. F. M. Athons. No. 1,422,330; July 11.
 Vehicles, Radiator for motor. C. F. Sperry. No. 1,422,315; July 11.
 Vehicles, Spring steering fork for wheeled. C. E. Cochran. No. 1,422,671; July 11.
 Vehicles, Theft signal for motor. L. R. Zepka. No. 1,422,404; July 11.
 Velocipede. C. W. Bennett. Nos. 1,422,171-2; July 11.
 Veterinary surgical instrument. O. Stader. No. 1,422,490; July 11.
 Vignetting tool. W. J. McCarthy. No. 1,422,773; July 11.
 Vises, Handle for blacksmiths. G. Rees. No. 1,422,478; July 11.
 Wagon, Motor tip. E. R. Walker. No. 1,422,500; July 11.
 Washer-placing apparatus. E. E. Winkley. No. 1,422,159; July 11.
 Washing machine. H. C. Doman. No. 1,422,547; July 11.
 Water heater. R. W. Averitt. No. 1,422,521; July 11.
 Water power apparatus. J. G. Hacking. No. 1,422,700; July 11.
 Water tank. E. Wood. No. 1,422,325; July 11.
 Weather strip, Floating. J. W. Hammes. No. 1,422,569; July 11.
 Weft supply and placing mechanism. C. Lea. No. 1,422,722; July 11.
 Weighing mechanism. S. W. Shuford. No. 1,422,141; July 11.
 Wheel: *See*—
 Advertising wheel. Metal wheel.
 Gear wheel. Steering wheel.
 Grinding wheel. Vehicle wheel.
- Wheel. G. G. Barry. No. 1,422,167; July 11.
 Wheel. F. B. Miller. No. 1,422,597; July 11.
 Wheel-drive differential. Positive both- A. B. Sowden. No. 1,422,144; July 11.
 Wheel rim, Demountable vehicle. H. E. Butcher. No. 1,422,661; July 11.
 Wheel-securing device. E. B. Grace. No. 1,422,697; July 11.
 Wheels, Rim construction for pressed-steel. D. H. Bellamore and T. I. S. Boak. No. 1,422,408; July 11.
 Winding drums, Electric switch and stop for. C. F. Cuno. No. 1,422,181; July 11.
 Winding drums, Electric switch for. C. H. Cuno. No. 1,422,180; July 11.
 Windmill. R. Morris. No. 1,422,602; July 11.
 Window adjuster. F. Fournier. No. 1,422,552; July 11.
 Window screen. I. W. Cherry. No. 1,422,539; July 11.
 Windows, Stay for casement. D. Donald. No. 1,422,680; July 11.
 Wire-bending machine. P. Liva. No. 1,422,455; July 11.
 Wire-fence fastener. V. Petersen. No. 1,422,127; July 11.
 Wire fencing, Post for. C. Parker. No. 1,422,301; July 11.
 Wire-rope machine. A. E. Anderson. No. 1,422,073; July 11.
 Wire-stitching machine. G. T. Buckham and J. I. Nasmith. No. 1,422,081; July 11.
 Work holder. A. Dameron. No. 1,422,749; July 11.
 Wrench: *See*—
 Combination wrench. Ratchet wrench.
 Pipe wrench. Socket wrench.
 Wrench. N. W. Graham. No. 1,422,563; July 11.
 Wrench. B. W. Hanle. No. 1,422,760; July 11.
 Wrench. A. A. Prevost. No. 1,422,621; July 11.
 Wrench. O. M. White and W. C. McCullough. No. 1,422,402; July 11.
 Wrench, Combination. E. W. Funk. No. 1,422,689; July 11.
 Wrench, Combined. G. T. Parsley. No. 1,422,471; July 11.
 Wrench, Socket. W. A. Abegg. No. 1,422,067; July 11.

ALPHABETICAL LIST OF DESIGNS.

- Badge, button, charm, emblem, pin, or similar article. T. C. Katke. No. 61,197; July 11.
 Badge, pin, button, or similar article of manufacture. W. L. Mann. No. 61,204; July 11.
 Bottle. C. Johnstone. No. 61,196; July 11.
 Clock, picture, and mirror frame, Combination. J. Urbanek. No. 61,217; July 11.
 Doll, Fig. I. Kerby. No. 61,198; July 11.
 Doll. A. Norquist. No. 61,206; July 11.
 Doll. C. O. Oliver. No. 61,207; July 11.
 Emblem, sign, badge, button, or similar article. C. A. Vane. No. 61,218; July 11.
 Emblem, badge, brooch, pin, cuff button, watch fob, or similar article. C. B. Dyer. No. 61,191; July 11.
 Fabric. W. Dowling. No. 61,190; July 11.
 Fabric, Dress. A. Cabalka. No. 61,186; July 11.
 Garment, Outer. K. L. Powell. No. 61,212; July 11.
 Gun, Grease. D. F. Fesler. No. 61,192; July 11.
 Lace. E. A. Davis. No. 61,189; July 11.
 Lace. J. Langenegger. No. 61,200; July 11.
 Lace. S. H. Page. No. 61,211; July 11.
 Light diffuser. O. M. Otte. Nos. 61,209-10; July 11.
 Light, Parking. H. H. Taylor. No. 61,215; July 11.
- Lighting-fixture arm. L. Levine. No. 61,201; July 11.
 Lighting fixtures, Plate for wall brackets for. T. Dahl. No. 61,188; July 11.
 Lighting fixtures, Wall bracket for. T. Dahl. No. 61,187; July 11.
 Lighting-fixture globe. L. B. London. No. 61,202; July 11.
 Mirrorscope, parking light, and direction indicator, Combination. W. P. Hammond. No. 61,195; July 11.
 Paper, Safety. C. Kres. No. 61,199; July 11.
 Paper, Safety. F. Meyer. No. 61,205; July 11.
 Phonograph and lamp stand, Combined. S. Trustman. No. 61,216; July 11.
 Phonograph cabinet. L. MacLachlan. No. 61,203; July 11.
 Plaque. H. W. Whipple. No. 61,219; July 11.
 Ring. W. G. Ginder. No. 61,194; July 11.
 Ring, Finger. D. Ornstein. No. 61,208; July 11.
 Toy. A. H. Shenk. No. 61,214; July 11.
 Watch holder, Sautoir. G. Riexinger. No. 61,213; July 11.
 Writing pad and advertising device or similar article, Combined. R. M. Gaffney. No. 61,193; July 11.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Adding machine and adding-machine attachments. Type-Adder Mfg. Corp. No. 156,768; July 11.
 Augers, drills, chisels, bits, etc. Forest City Bit & Tool Co. No. 156,673; July 11.
 Automotive parts. Parts Service Company. No. 156,728; July 11.
 Bakeries. Certain machinery for. Champion Machinery Co. No. 156,641; July 11.
 Battery and electric lighting plants, switchboards. Worthington Pump and Machinery Corporation. No. 156,790; July 11.
 Battery boxes. Silurium Manufacturing Company. No. 156,754; July 11.
 Batteries, Storage. Simmons Hardware Company. No. 156,755; July 11.
 Bearings for automobiles, etc. Automatic adjusters for. J. F. Rose. No. 156,744; July 11.
 Beer, Preservative for. A. Boake, Roberts & Co. No. 21,782; renewed Sept. 27, 1922.
 Belting, Woven machine. F. Raddaway & Co. No. 21,346; renewed June 21, 1922.
 Beverages and sirups for making same. Remer-Dell Products Corporation. No. 156,682; July 11.
 Blankets, wool in piece for making bath robes, blankets, and shawls, etc. Pendleton Woolen Mills. No. 156,730; July 11.
 Books, Gift record. R. M. Place. No. 156,731; July 11.
 Brushes, Artists'. M. Grumbacher. Nos. 156,801-3; July 11.
 Buckles made of precious metal or imitation precious metal, Belt, shoe, and clothing. Wightman & Hough Company. No. 156,786; July 11.
 Candies. W. C. Nevin Candy Co. No. 156,719; July 11.
 Candies. S. W. Watson. No. 156,777; July 11.
 Candies and chocolates. W. H. Luden. No. 156,701; July 11.
 Candies and confections. J. D. Stem. No. 156,760; July 11.
 Candies, Chocolate-coated. De Klyn Candy Co. No. 156,655; July 11.
 Candy. W. T. Grant Company. No. 156,676; July 11.
 Candy. C. I. Harraden. No. 156,681; July 11.
 Candy. Licorice Products Company. No. 156,699; July 11.
 Candy and caramels. Paul F. Beich Company. No. 156,622; July 11.
 Candy, Chocolate. Theodore Bros. Chocolate Co. No. 156,766; July 11.
 Candy, Coconut. Millen Candy Co. No. 156,708; July 11.
 Canned cherries, crushed pineapple, honey, etc. Mi-O-Mi, Inc. No. 156,712; July 11.
 Canned fruits and salmon and sardines. H. J. Baker & Bro. No. 156,618; July 11.
 Canned fruits and vegetables. Virden Packing Company. No. 156,772; July 11.
 Canned fruits and canned vegetables. Virden Packing Company. No. 156,773; July 11.
 Castings, Malleable-iron. Iowa Malleable Iron Company. No. 156,690; July 11.
 Cement. Burham, Brick, Lime and Cement Company. No. 20,950; renewed Apr. 5, 1922.
 Chocolate-coated marshmallow and caramel bar candy. Nutrine Mfg. Co. No. 156,721; July 11.
 Chocolate, cocoa, chocolate candy, and other candies. Beacon Chocolate Company. No. 156,620; July 11.
 Chocolate, Sweet and milk. Hershey Chocolate Company. No. 156,688; July 11.
 Cigar cutters. Goldsmith, Stern and Co. No. 156,675; July 11.
 Cigars, cigarettes, smoking, chewing, and plug tobacco. Weideman Company. No. 156,778; July 11.
 Cigars, smoking tobacco, and cigarettes. Thompson & Company. No. 156,819; July 11.
 Circuit-controlling and pressure-controlling devices and mercury tubes, Certain. Federal Gauge Company. No. 156,669; July 11.
 Clamps, Rope. American Hoist & Derrick Co. No. 156,609; July 11.
 Clocks, alarm watches, watches, Alarm. Kienzle Uhren-fabriken Kommanditgesellschaft. No. 156,696; July 11.
 Clothes-washing machine. R. S. Burlingame. No. 156,639; July 11.
 Coffee. Jewel Tea Company. No. 156,692; July 11.
 Coffee, St. Louis Coffee & Spice Mills. No. 156,764; July 11.
 Coffee, Weppner-Weil Company. No. 156,780; July 11.
 Coffee, food-flavoring extract, tea. John Scowcroft & Sons Company. No. 156,749; July 11.
 Computing machines. Yard-O-Meter Corporation. No. 156,791; July 11.
 Concrete mixers, diaphragm pumps, hoists, backfillers, engines. Construction Machinery Company. No. 156,650; July 11.
 Corsets. American Lady Corset Co. No. 156,793; July 11.

Corsets and brassières. F. E. Lund. No. 156,702; July 11.
 Cotton piece goods. J. Grossman & Co. No. 156,800; July 11.
 Cotton piece goods. Victor Monaghan Company. No. 156,822; July 11.
 Cranes, Electric. Milwaukee Electric Crane & Mfg. Co. No. 156,710; July 11.
 Crash, towels, and towelings. West Point Manufacturing Company. No. 156,825; July 11.
 Cutlery, Articles of. Societe Generale de Coutellerie & Orfeverrie. Nos. 156,756-7; July 11.
 Dates, Fresh. Van Dyk and Reeves. No. 156,771; July 11.
 Dental supplies and appliances. L. D. Caulk Company. No. 156,640; July 11.
 Egg, meringue powder, pie filling. Dried. Economy Food Products Company. No. 156,660; July 11.
 Electric fixtures. Hemco Electric Manufacturing Company. Nos. 156,684-5; July 18.
 Electric-lighting fixtures. G. R. Ainsworth. No. 156,607; July 11.
 Electric motors and parts thereof, short circuiters, etc. Master Electric Company. No. 156,704; July 11.
 Electric power-generating units. Lincoln Light Corporation. No. 156,700; July 11.
 Electric sockets. M. Propp Co. No. 156,737; July 11.
 Electric spark energizer. B. Shapleigh. No. 156,624; July 11.
 Electrical apparatus. Dayton Pump & Manufacturing Company. No. 156,797; July 11.
 Electrical apparatus, Certain. J. A. Crabtree & Co. No. 156,652; July 11.
 Electrical apparatus, Certain. John Firth & Co. No. 156,671; July 11.
 Electrical apparatus, Certain. Metropolitan-Vickers Electrical Company Ltd. No. 156,706; July 11.
 Electrical apparatus, Certain. S. Schmukler & Son. No. 156,745; July 11.
 Electrical lighting fixtures and supplies. J. Rabinovitz. No. 156,740; July 11.
 Engines, Explosive. Yellow Jacket Manufacturing Company. No. 156,792; July 11.
 Engines, Ignition timers for explosion. Anderson Company. No. 156,613; July 11.
 Engines, Internal-combustion. Fox Motor Car Company. No. 156,674; July 11.
 Engines, Vapor-mixing device for internal-combustion. E. C. Mettler Co. No. 156,707; July 11.
 Fans, Centrifugal. B. F. Sturtevant Company. No. 156,762; July 11.
 Fats, Cooking. Precter and Gamble Company. No. 156,736; July 11.
 Finger rings. M. Bauman. No. 156,619; July 11.
 Fire brick, furnace and baffle tiles, etc. W. E. Mushet. Nos. 156,715-6; July 11.
 Fruits, Citrus. Chas. C. Oyler & Son. No. 156,725; July 11.
 Fudge body covered first by marshmallow and then icing, Bar containing a. Curtiss Candy Co. No. 156,653; July 11.
 Game. A. R. Hager. No. 156,680; July 11.
 Gauges, etc., Liquid. C. M. Larson. No. 156,698; July 11.
 Gears. Merkle-Korff Gear Co. No. 156,705; July 11.
 Gum, Chewing. Shelby Supply and Manufacturing Company. No. 156,753; July 11.
 Gum, Chewing. Pulver Company. No. 156,738; July 11.
 Hair nets, Sanitary human-. National Commodities Co. No. 156,717; July 11.
 Hams, bacon, and lard. Patrick-Young Co. No. 156,729; July 11.
 Harness, saddles, bridles, etc. Schoellkopf Co. No. 156,746; July 11.
 Hat linings, Ready-made. L. J. Schiller. No. 156,812; July 11.
 Hats, Ladies'. R. Racille. No. 156,810; July 11.
 Hosiery, underwear, sweaters, overshirts. Cohen & Ettenson. No. 156,649; July 11.
 Hosiery, underwear, wristlets, neckties, sweaters, etc. H. J. Seltzer. No. 156,813; July 11.
 Ice cream. Hendler Creamery Company, The. Nos. 156,686-7; July 11.
 Ice cream. Elite Confectionery Co. No. 156,665; July 11.
 Inks, Writing. H. Stolzner. No. 156,761; July 11.
 Insulating tape, Electric. Diamond Holfast Rubber Co. No. 156,657; July 11.
 Jam, Jelly, fruit preserves, conserves. Welch Grape Juice Company. No. 156,779; July 11.
 Jellies, fruit preserves, conserves, and canned fruit. J. Graves. Nos. 156,677-8; July 11.
 Jewelry. Ovington Bros. Company. No. 156,826; July 11.
 Jewelry. William A. Waters Company. No. 156,776; July 11.
 Jewelry, Certain. Abel Bros. & Co. No. 156,606; July 11.
 Jewelry, Certain named. Katz & Ogush, Inc. No. 156,695; July 11.

- Knitting machines, Warp-. National Knitting Machine Co. No. 156,718; July 11.
- Knit underwear. United Knitting Works Company Limited. No. 22,105; renewed Dec. 6, 1922.
- Lamps and their parts. Electric incandescent. Osram G. m. b. H. Kommanditgesellschaft. No. 156,724; July 11.
- Lamps, Electric gas-filled. Osram G. m. b. H. Kommanditgesellschaft. No. 156,723; July 11.
- Lamps, Electric vehicle. Indiana Lamp Company. No. 156,689; July 11.
- Laundry appliances and machines. Certain. American Laundry Machinery Company. No. 156,610; July 11.
- Leather cut stock strips, Sole-. S. D. Rosenfield. No. 156,816; July 11.
- Liquid, piston, etc., meters, disk counters. Worthington Pump and Machinery Corporation. Nos. 156,788-9; July 11.
- Lighting arresters. E. A. Everett. No. 156,667; July 11.
- Lime, Portland cement, and fire clay, Hydrated. Hat-maker & Place. No. 156,683; July 11.
- Load binders. E. C. Stacy. No. 156,759; July 11.
- Macaroni. Bragno & Mustari. No. 156,634; July 11.
- Machinery wheels and gears. American Steel Foundries. No. 156,612; July 11.
- Malt extract. Blue Bird Malt Co. No. 156,625; July 11.
- Molasses. D. B. Scully Syrup Company. No. 156,750; July 11.
- Musical instruments and parts thereof, Stringed. E. W. Plate. No. 156,732; July 11.
- Musical instruments, Finished strings for stringed. H. A. Weyman & Sons. No. 156,782; July 11.
- Musical instruments and supplies, Certain. D. L. Whittle Music Company. No. 156,734; July 11.
- Mustard, peanut butter, vinegar, Prepared. Jackson Company. No. 156,691; July 11.
- Necklaces, Bead. Mission Bead Company. No. 156,713; July 11.
- Nuts, Internally-salted. J. Finn, Jr. No. 156,670; July 11.
- Oils, Edible vegetable cotton-seed. American Cotton Oil Company. No. 156,608; July 11.
- Oil-mill machinery. Buckeye Iron and Brass Works. No. 156,637; July 11.
- Oil, Olive. C. Buonocore & Son. No. 156,638; July 11.
- Overalls. S. & S. Shirt Company. No. 156,814; July 11.
- Packing case, Built-up. Utility Manufacturing Company. No. 156,820; July 11.
- Paints and paint enamels, Ready-mixed. Voltax Company. No. 156,774; July 11.
- Paper, announcement cards, and mailing envelopes, Wedding. American Writing Paper Company. No. 156,794; July 11.
- Paper for printing, lithographing, pen and ink, etc., Bond. J. W. Butler Paper Company. No. 156,796; July 11.
- Paper, Gummed. Ideal Coated Paper Company. No. 156,804; July 11.
- Paper, Toilet. Linton & Scott. No. 156,748; July 11.
- Paper, Toilet. White-Washburne Company. No. 156,783; July 11.
- Pattern outfits, bevets, calipers, etc. Fairbanks Co. No. 156,668; July 11.
- Pearls and necklaces, made of same, Artificial. R. H. Bodman. No. 156,629; July 11.
- Pearls, Imitation. New England Glass Works. No. 156,720; July 11.
- Pearls, necklaces, and clasps. F. M. Botelho. No. 156,632; July 11.
- Pens and parts thereof, Fountain. Wahl Company. No. 156,823; July 11.
- Phonographs. Thomas A. Edison, Incorporated. Nos. 156,661-2; July 11.
- Phonographs. J. & C. Fischer. No. 156,672; July 11.
- Phonographs and phonograph records. Brunswick-Balke-Collender Company. No. 156,636; July 11.
- Phonograph records. Emerson Phonograph Company. No. 156,666; July 11.
- Phonograph records. Plaza Music Company. No. 156,733; July 11.
- Phonographs, phonograph records, player and manual pianos and organs, and player rolls. Pace Phonograph Corporation. No. 156,726; July 11.
- Pianos. C. C. and E. E. Conway and T. P. Brown, trustees, trading as Hallet & Davis Piano Co. No. 156,651; July 11.
- Pianos, player pianos, electrically-operated pianos. Spector & Son Piano Co. No. 156,758; July 11.
- Piano trapwork, wire, and pedals. Widney Company. No. 156,785; July 11.
- Piece goods of silk, wool, linen, cotton, and China grass. Bianchini, Férier. No. 156,795; July 11.
- Pile fabric in the piece. Sidney Blumenthal & Co., Inc. No. 156,626; July 11.
- Pipe machines, Electric. Robbins, Gamwell & Company. No. 156,742; July 11.
- Pistons for internal-combustion engines. Clark-Turner Piston Company. No. 156,645; July 11.
- Plates and connections for electric-lighting fixtures, etc., Wall and ceiling. Electric Outlet Company. No. 156,663; July 11.
- Plows. Deere & Company. No. 20,974; renewed Apr. 12, 1922.
- Plugs, Electrical, attachment, and switch. Beaver Mach. & Tool Co. No. 156,621; July 11.
- Printing machines and parts of same, paper-cutting machines, etc. Omnigraph Company. No. 156,722; July 11.
- Printing machines and parts thereof. Printator, G. m. b. H. No. 156,735; July 11.
- Pumps for rotating screens for removing solids from industrial and municipal waste. Dorr Company. No. 156,659; July 11.
- Radio apparatus, Certain. F. A. D. Andrea. No. 156,615; July 11.
- Radio mechanism, Certain appliances for. American Radio Sales and Service Company. No. 156,611; July 11.
- Radio mechanism, Certain. Westinghouse Electric & Manufacturing Company. No. 156,781; July 11.
- Radiosignaling, Apparatus for. Jewett Manufacturing Corporation. No. 156,693; July 11.
- Rings, Finger. Bock-Lewis Co. No. 156,628; July 11.
- Rings, Finger. M. Seiger & Son. No. 156,752; July 11.
- Rings, Finger. Uncas Manufacturing Co. No. 156,769; July 11.
- Scissors and shears. Acme Shear Company. No. 156,605; July 11.
- Shirts, Dress and negligee. Rainbow Shirt Corporation. No. 156,741; July 11.
- Shirts, Dress and negligee. Roggen Bros. & Co. No. 156,811; July 11.
- Shirts, Negligee. Jackson & Gutman Company. No. 156,806; July 11.
- Shirts with reversible cuffs. Venus Manufacturing Company. No. 156,821; July 11.
- Shoe laces, Mercerized. W. C. Johnson. No. 156,694; July 11.
- Shoes, Ladies' and misses' leather. Kohn-Fechheimer. No. 156,806; July 11.
- Silk and satin piece goods. James McCreery & Company. No. 156,808; July 11.
- Silk piece goods. Edward Bloom Co. Inc. No. 156,798; July 11.
- Spark plug. Brown Bag Filling Machine Company. No. 156,635; July 11.
- Spark plugs. Dayton Ignition Company. No. 156,654; July 11.
- Spark timers for internal-combustion engines. Berg Bros. Mfg. Company. No. 156,623; July 11.
- Stones, Electric. Sterolelectric Company. No. 156,763; July 11.
- Storage batteries. United Auto Electric Service, Inc. No. 156,770; July 11.
- Suits, Tailored. L. R. Dolby Co. No. 156,658; July 11.
- Sweepers, Electric suction. Clements Mfg. Co. No. 156,646; July 11.
- Switches and circuit interrupters, Starting. Miniature Breaker Co. No. 156,711; July 11.
- Switches, lightning arresters, choke coils, Disconnecting. Electrical Engineers Equipment Company. No. 156,664; July 11.
- Talking machines and music boxes. Lyon & Healy. No. 156,703; July 11.
- Talking-machine needles. W. E. Morrow. No. 156,714; July 11.
- Talking machines, phonographs, and music boxes. Sonora, Inc. No. 156,817; July 11.
- Telephonic apparatus. G. Boissonnault Company. Nos. 156,630-1; July 11.
- Timers for internal-combustion engines. Chicago Timer Factory Incorporated. Nos. 156,642-3; July 11.
- Tire pumps and valve grinders. Autoquip Mfg. Co. No. 156,617; July 11.
- Tires and tubes for vehicles, Rubber or rubber and fabric. Brunswick-Balke-Collender Company. No. 156,827; July 11.
- Tires, inner tubes for tires, tire liners, and tire patches, Automobile. Climax Rubber Co. No. 156,647; July 11.
- Title and identification certificate. Security Certificate Company. No. 156,751; July 11.
- Tomato catchup, chili sauce, and canned pork and beans. Greenabaum Bros. Inc. No. 156,679; July 11.
- Tomato sauce, canned olives, cotton-seed salad oil. Bragno & Mustari. No. 156,633; July 11.
- Tools and machinery, Certain. Millers Falls Company. No. 156,709; July 11.
- Toys. Certain. Rogers Construction Company. No. 156,743; July 11.
- Trolley guards. W. K. Page. No. 156,727; July 11.
- Trousers, Double-seated. S. Shapiro Company. No. 156,815; July 11.
- Trousers, overcoats, and suits. L. M. Furman. No. 156,799; July 11.
- Typewriter ribbons, carbon paper, and certain inks. Waters & Waters Mfg. Co. No. 156,824; July 11.
- Vegetable slicers and choppers. E. S. Anderson Company. No. 156,614; July 11.
- Vinegar. Powell Corporation. No. 156,734; July 11.
- Vinegars, salad dressing, honey, etc. Trinity Grocery Co. No. 156,767; July 11.
- Violins and similar musical instruments, Strings for. William Voit Co. No. 156,787; July 11.
- Washboilers, Household. Atlas Tinware Company. No. 156,616; July 11.
- Washing machines and clothes wringers, Laundry. The Coffield Washer Co. No. 156,648; July 11.
- Washing machines and wringers, Laundry. Clark, Cadle, Harmon Corp. No. 156,644; July 11.

Washing machines, Laundry. Detroit Washing Machine Corporation. No. 156,656; July 11.
 Washing machines, Laundry. Landers, Frary & Clark. No. 156,697; July 11.
 Washing machines, Laundry. Sunny Line Appliances, Inc. No. 156,765; July 11.
 Watches and watch movements, dials, and cases. Adolphe Schwob, Inc. No. 156,747; July 11.

Water purification, chlorine-control apparatus, and certain other apparatus. Chemical-control equipment for. Wallace & Tiernan Co. No. 156,775; July 11.
 Weaners, Stock. Purcell Company. No. 156,739; July 11.
 Windshield sunshade. B. H. Pugh. No. 156,809; July 11.
 Woolen piece goods. Strong, Hewat & Co. No. 156,818; July 11.
 Worsted, Knitting. Lauerman Bros. Co. Inc. No. 156,807; July 11.

ALPHABETICAL LIST OF LABELS.

"Bates." (For Hops.) A. J. Ray & Son, Inc. No. 24,708; July 11.
 "Beckwith." (For Fancy Kadota Figs.) Beckwith Co. No. 24,695; July 11.
 "Best Ever" Sponge Ball." (For a Rubber Ball with Rubber Sponge Center.) Hochschild Corporation. No. 24,699; July 11.
 "Crown." (For Salmon.) Macleay Estate Co. No. 24,702; July 11.
 "De Luxe Tu-Tone." (For Powder Puffs.) Hochschild Corporation. No. 24,698; July 11.
 "Double Eagle." (For Fresh Pears.) L. B. Dutton. No. 24,697; July 11.
 "Flor De Anson." (For Cigars, Cigarettes, and Tobacco.) T. J. Huenig. No. 24,700; July 11.
 "Grizzly Grip." (For White Rubber Patch.) 20th Century Tire Protector Co. No. 24,710; July 11.

"Hygeno." (For a Whole-Wheat Flour.) Albers Bros. Milling Co. No. 24,694; July 11.
 "Kelcomel." (For a Food.) Kehler Flour Mills Co. No. 24,701; July 11.
 "Lightnin." (For an Insecticide.) Charleston Drug Mfg. Co. No. 24,696; July 11.
 "Marshel's Blue Fountain Pen Ink." (For Packages of Blue Ink.) B. M. Marshel. No. 24,704; July 11.
 "Mt. Hood." (For Hops.) A. J. Ray & Son, Inc. No. 24,709; July 11.
 "Prima." (For Barley-Malt Extract.) Primalt Products Co. No. 24,706; July 11.
 "Prima." (For Ginger Ale.) Primalt Products Co. No. 24,707; July 11.
 "Real-Lager." (For a Cereal Beverage.) Oertel Co. Incorporated. No. 24,705; July 11.
 "Royal." (For Salmon.) Macleay Estate Co. No. 24,703; July 11.

ALPHABETICAL LIST OF PRINTS.

"Hose Mulconroy." (For Advertising Purposes for Hose for Conveying Steam, Water, Air, Oil, Gas, Gasoline, Chemicals, Paint, Sand, Etc.) Mulconroy Company, Inc. No. 6,209; July 11.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Antiseptic and germicidal solution. Langley & Michaels Co. No. 159,710; July 11.
 Antiseptic solution. Henry S. Wampole, Company. No. 158,964; July 11.
 Antiseptic solution for use in the oral and nasal passages. Alkaline. Owl Drug Company. No. 160,964; July 11.
 Apples, Fresh. White Bluffs Warehouse Co. No. 141,049; July 11.
 Aprons. R. H. Macy & Co. No. 148,290; July 11.
 Automobile springs. Cincinnati Horse Shoe & Iron Co. No. 163,671; July 11.
 Balls, Golf. Dunlop Tire and Rubber Corp. of America. No. 156,153; July 11.
 Bandeaux and brassieres. Vanity Brassiere Company. No. 156,557; July 11.
 Bath robes, Pullman and beach and house robes. M. Auerbach. No. 158,031; July 11.
 Bats, Baseball. Collierville Bat and Dimension Stock Company. No. 162,381; July 11.
 Batteries, Storage. J. S. Neidich. No. 158,054; July 11.
 Belts, belting, and elastic. Governform Corporation. No. 155,682; July 11.
 Beverage and sirups for making same. O. R. Pieper Co. No. 164,259; July 11.
 Beverage, Maltless carbonated coffee. Anheuser-Busch, Incorporated. No. 150,211; July 11.
 Beverages and sirups used in preparation of same. Primalt Products Co. No. 164,949; July 11.
 Beverages, more specifically soda water. Grone & Co. No. 129,545; July 11.
 Beverages sold as soft drinks. G. Tragarakis. No. 164,525; July 11.
 Beverages sold as soft drinks and sirups for making the same. Porter Bros. No. 162,888; July 11.
 Blacking, patent-leather and metal polishes, etc. Paton, Calvert & Co. Limited. No. 146,387; July 11.
 Blankets, blanket fabrics in the piece, cotton piece goods, ribbons, robes, rugs, etc. Esmond Mills. No. 155,673; July 11.
 Blankets, comfortables, traveling rugs, baby bags, etc. Beacon Manufacturing Company. No. 141,753; July 11.
 Blue or bluing, Laundry. Scherer, Burnell & Scherer, Inc. No. 129,573; July 11.
 Brake lining. Bettes & Ebsen. No. 163,775; July 11.
 Brake lining. Manhattan Rubber Mfg. Co. No. 160,891; July 11.
 Brushes. John L. Whiting-J. J. Adams Company. Nos. 148,409-12; July 11.

Brushes. John L. Whiting-J. J. Adams Company. No. 157,506; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 138,438-46; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,766-7; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,769-76; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,825-6; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 139,828; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 139,832; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 139,834-5; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 140,154-5; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 140,228-31; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. No. 140,235; July 11.
 Brushes for painting, varnishing, etc. John L. Whiting-J. J. Adams Company. Nos. 140,421-2; July 11.
 Bumpers. Badger Manufacturing Corporation. No. 163,774; July 11.
 Butter. Mott & Wood Co. No. 153,308; July 11.
 Butter, condensed and evaporated milk, and ice cream. Dairymen's League Co-operative Association, Inc. No. 161,529; July 11.
 Cakes, cookies, and fried cakes. Grennan Cake Corporation. No. 154,587; July 11.
 Candy. New England Confectionery Company. No. 154,837; July 11.
 Candy. Nunnally Company. No. 153,255; July 11.
 Candy. J. H. Overhauser. No. 150,927; July 11.
 Canned fruits and vegetables, rolled oats, olives, peanut butter, spices, etc. May Bros. Co. No. 154,883; July 11.
 Cards, Push. S. Gottlieb. No. 162,108; July 11.
 Chemical preparation. E. H. Leslie. No. 158,720; July 11.
 China, earthenware, pottery, stoneware, etc. Geo. V. Millar Co. No. 162,940; July 11.
 Chocolate, cocoa, and cacao. Naamlooze Vennootschap tot Exploitatie van Cacao-en Chocolaadbrieken Maatschappij A. Driessen. No. 155,415; July 11.
 Cigarettes. L. Mosquera. No. 158,685; July 11.

- Cigars, John C. Guy Company Incorporated. No. 144,023; July 11.
- Cigars, R. Landman. No. 159,270; July 11.
- Cigars, little cigars, cigarettes, and smoking tobacco. Alfred Dunhill of London. Nos. 163,037-8; July 11.
- Clay, Modeling. Binney & Smith Company. No. 159,138; July 11.
- Clothing for men and boys, Outer. A. B. Frank Company. No. 155,957; July 11.
- Clothing, Men's. W. F. Moran. No. 157,000; July 11.
- Clothing, Men's and young men's. Individual Tailoring Company. No. 151,948; July 11.
- Coats, vests, and pants, Men's. Rosenberg Bros. & Co. No. 156,714; July 11.
- Coloring and tinting fabrics and the like, Preparation for. E. Samson. No. 160,837; July 11.
- Concrete construction, Metal inserts for anchoring piping and shafting, etc., to. Wright & Alexander. No. 133,015; July 11.
- Cotton textiles in the piece. N. Erlanger, Blumgart & Co. Nos. 161,723-4; July 11.
- Cough lozenges and sirup, and compound for treatment of coughs. Vienna Medical Company. No. 159,638; July 11.
- Cows, Guernsey. John C. Haartz. No. 157,568; July 11.
- Cravats. W. O. Horn & Brother, Inc. No. 157,422; July 11.
- Cream, Cold. L. G. Ryan. No. 156,752; July 11.
- Dentifrices, gum, and tooth remedies. Antitartar Chemical Company. No. 157,790; July 11.
- Diapers, Babies'. Thomas Textile Company. No. 158,200; July 11.
- Dolls. M. S. Wingert. No. 161,913; July 11.
- Dolls and toy figures. L. M. Davis. No. 159,201; July 11.
- Doubling and twisting frames, Combination. Atwood Machine Company. No. 158,554; July 11.
- Doubling frames. Atwood Machine Company. No. 158,555; July 11.
- Dresses and aprons. Mandel Brothers. No. 156,538; July 11.
- Dyestuffs. Jennings & Company. No. 159,586; July 11.
- Egg-preserving compounds. Triangle Manufacturing Co. No. 157,969; July 11.
- Electrical circuit testers. A. B. Christopher. No. 157,138; July 11.
- Equestrian equipments. Perkins-Campbell Company. No. 144,148; July 11.
- Extracts, Liquid food-flavoring. J. B. McComb. No. 154,318; July 11.
- Fabric, brake, and transmission lining. United States Asbestos Company. No. 162,653; July 11.
- Flour, Wheat. Key's-one Flour Co. No. 154,984; July 11.
- Food products. Mawer-Gulden-Annis Inc. No. 157,039; July 11.
- Fruits, fruit sirups, flavoring extracts, etc., Crushed. John Sexton and Company. No. 153,112; July 11.
- Fruits in their natural state, Citrus. Pittsburgh-Florida Fruit Growers Assoc. No. 156,019; July 11.
- Furniture made of reed, rattan, and fiber. The Wicker-craft. No. 155,288; July 11.
- Game, Solitaire. Lubbers & Bell Mfg. Co. No. 162,882; July 11.
- Garment for females, Outer. Abe Millman, Inc. No. 153,742; July 11.
- Gas apparatus and gas burners. C. M. Kemp Manufacturing Co. No. 131,334; July 11.
- Gasoline intensifier. Clinton Chemical Company. No. 158,857; July 11.
- Gloves and mittens. Helmholz Mitten Company. No. 155,020; July 11.
- Golf clubs. H. I. Jordan. No. 163,583; July 11.
- Golf game, Indoor. Putt-Putt Co. No. 161,199; July 11.
- Hair dressing. C. C. Hay. No. 117,377; July 11.
- Hair nets, Human-. M. Goldaber & Co. No. 143,491; July 11.
- Hair res-orers. J. W. Hornsey. No. 159,655; July 11.
- Hair tonic. S. Basso. No. 156,517; July 11.
- Hats and furs, Women's. Bos-Ben Shop. No. 156,773; July 11.
- Hats, Women's, misses', and children's. Joseph Loeb Company. No. 155,971; July 11.
- Hosiery. Ansbacher & Van Baalen. No. 153,121; July 11.
- Incense. Will & Baumer Candle Co. No. 160,175; July 11.
- Insecticides. M. Diederich. No. 159,567; July 11.
- Knitted coats, jackets, vests, for men, women, and children. H. M. Sawyer & Son. No. 157,447; July 11.
- Knitted underwear, Ladies'. Graceline Knitting Company. No. 156,326; July 11.
- Lime, Hydrated and quick. Commercial Lime Company. No. 162,533; July 11.
- Liniment for treatment of rheumatism. J. C. Gustafson. No. 158,231; July 11.
- Lockers, wardrobe, and filing cabinets, and steel shelving. Steel, Durabilt Steel Locker Co. No. 159,350; July 11.
- Machinery, Agricultural. Moline Plow Company. No. 158,628; July 11.
- Magazine, published monthly. C. I. Campbell. No. 156,681; July 11.
- Magazine published monthly, Periodical. J. E. Hess. No. 158,710; July 11.
- Magazines, Monthly. Westinghouse Electric & Manufacturing Company. No. 159,642; July 11.
- Malt extract. M. J. Murphy. No. 147,359; July 11.
- Meat and bone scraps for use as poultry feed. E. H. Eckert. No. 155,052; July 11.
- Medicinal preparation. Eli Lilly & Company. No. 159,211; July 11.
- Medicinal preparation for treatment of loin disease in cattle. W. Abell. No. 159,547; July 11.
- Medicine for venereal diseases and catarrh of the mucous membrane. Parke, Davis & Company. No. 160,249; July 11.
- Medicines for external use. G. J. McCabe. No. 153,888; July 11.
- Medicines for use in the treatment of rheumatism, neuralgia, etc. Allen and Clay. No. 160,784; July 11.
- Necklaces. Stix, Baer & Fuller Dry Goods Co. No. 162,071; July 11.
- Night robes and sleeping garments. E. Rosenfeld & Company. No. 158,146; July 11.
- Oil and alimentary paste, Olive. Ada Importing Co. No. 156,347; July 11.
- Oil for rheumatism, boils, etc., Healing. J. Stanislawski. No. 158,999; July 11.
- Oils, Pure-fat salad and cooking. E. Klein. No. 154,083; July 11.
- Ointment for treatment of eczema and ulcers. R. L. Pleasant. No. 160,969; July 11.
- Oranges and preserved oranges. I. K. Friedman. No. 155,604; July 11.
- Oranges, grapefruits, and tomatoes, Fresh. Commerce Fruit Company. No. 155,014; July 11.
- Oysters and canned oysters. L. P. Maggioni & Co. No. 156,399; July 11.
- Packing, Piston and piston-rod. Johns Manville Incorporated. No. 164,445; July 11.
- Pants. Straus Mfg. Co. No. 150,937; July 11.
- Paper, Bond. A. W. Pohlman Paper Co. Nos. 163,469-70; July 11.
- Paper, Writing. Fox River Paper Company. Nos. 163,263-5; July 11.
- Peanuts, Sugar-toasted. Mi Candy Company. No. 155,201; July 11.
- Pens, Fountain. Dunn-Pen Company. No. 157,215; July 11.
- Pens, Fountain. Simplo Füllfeder-Gesellschaft Voss, Lausen & Ditzendor. No. 163,292; July 11.
- Periodical, Monthly. Boot and Shoe Recorder Publishing Company. No. 159,686; July 11.
- Periodical, Weekly. Boot and Shoe Recorder Publishing Company. No. 159,786; July 11.
- Petroleum jelly, camphor ice, camphorated oil, cold cream, etc. Pureline Co. No. 158,005; July 11.
- Polish, Boot, Blakey's Boot Protectors, Limited. Nos. 158,413-14; July 11.
- Powders, face creams, rouges, etc., Face, talcum, and sachet. Jolie, Inc. Nos. 160,944-5; July 11.
- Preparation or medicine for pains and aches of nervous or organic origin, and for rheumatic, neuralgic, and gouty conditions, etc. Bayer Company. Nos. 160,921-3; July 11.
- Publication, Monthly. Glass Container Association of America. No. 162,336; July 11.
- Publication, Weekly. Jones & Baker. No. 162,742; July 11.
- Pumps, Circulating. System Machine Works. No. 158,731; July 11.
- Raincoats, cravenettes, gabardines, bath robes, and ladies' skirts. Comer Manufacturing Company. No. 153,239; July 11.
- Reeling frames, Silk-. Atwood Machine Company. No. 158,557; July 11.
- Refrigerators. Standard Refrigerator Company. No. 160,369; July 11.
- Remedy for indigestion and dyspepsia. M. Herndon. No. 158,312; July 11.
- Rings, Finger. L. C. May. No. 158,882; July 11.
- Root beer and ginger ale. Reid, Murdoch & Co. No. 164,269; July 11.
- Salts, Bath. Saltrates, Limited. No. 160,723; July 11.
- Salve for itching diseases, sores, burns, etc. M. G. Hornung. No. 160,762; July 11.
- Sardines. Bordeaux & New York Trading Co. No. 157,882; July 11.
- Scrim in the piece. Boett Mills. No. 145,873; July 11.
- Sewing machines, Loopers for overseaming and over-edgeing. Merrow Machine Company. No. 158,629; July 11.
- Shampoo liquid compositions, balsams, and ointments for eczema, Medicated. R. D. Hill Company. No. 160,811; July 11.
- Shells, Shot. Western Cartridge Company. No. 164,681; July 11.
- Shirt waists, suits, etc., men's and boys' neckties, pyjamas, blouses, etc., Ladies' and misses. J. A. Migel, Inc. No. 153,677; July 11.
- Shock absorbers and radiator shutters. Packard Engineering Co. No. 155,363; July 11.
- Shoe holders. C. E. Schmidt. Nos. 158,339-40; July 11.
- Shovels and scoops. Marshall-Wells Company. No. 141,318; July 11.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Signs, Electrically-illuminated. Flexlume Sign Company. No. 132,736; July 11.	Tablets, Laxative. Plax Company. No. 159,527; July 11.
Sirup for cooking purposes. Holbert & Holbert. No. 152,423; July 11.	Tachometers and odometers. North East Electric Company. No. 161,640; July 11.
Skates, baseballs, bats, mitts, golf balls, sticks, and bags, etc. Caravel Company Inc. No. 134,112; July 11.	Threads, Cotton. Bay State Thread Works. No. 150,131; July 11.
Soap. P. Kurtzinger. No. 151,918; July 11.	Tire-inflating devices. Tire Inflator Co. No. 158,777; July 11.
Spinning frames. Atwood Machine Company. No. 158,553; July 11.	Tires, Pneumatic rubber vehicle. Ambassador Tire Corporation. No. 164,290; July 11.
Spray for trees, plants, shrubs, and the like. Herbicide Chemical Laboratories. No. 160,666; July 11.	Tires, Rubber or rubber and fabric. Racine Rubber Company. No. 158,951; July 11.
Springs, Ring. O. E. Lehmann & Co. No. 161,688; July 11.	Toilet water, scalp rub, hair tonic, etc. C. T. Naumann. No. 160,717; July 11.
Stair treads, Cork. Pocock Manufacturing Company Limited. No. 146,844; July 11.	Tooth paste and mouth washes. G. L. Kitchen. No. 160,888; July 11.
Stoves and heaters, Gas. American Stove Company. No. 163,959; July 11.	Treatment of pyorrhea, etc. National Pyro-Zene Company. No. 160,960; July 11.
Suits, trousers, and overcoats, Men's. Arthur Litt & Co. No. 151,763; July 11.	Vehicle tops and fittings therefor, Bow sockets for. Ash-tabula Bow Socket Company. No. 146,286; July 11.
Suppositories, Antiseptic, astringent, vaginal. Owl Drug Company. No. 160,967; July 11.	Wagons, Children's coaster. Sheboygan Coaster & Wagon Works. No. 162,273; July 11.
Tableware. Mappin & Webb Limited. No. 159,473; July 11.	Washing fluid. R. Kravitz. No. 161,195; July 11.
	Wine, Medicinal bitter. Picon & Cie. No. 158,251; July 11.

CLASSIFICATION OF PATENTS

ISSUED JULY 11, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

11: 1,422,081	29— 86.2: 1,422,201	53— 1: 1,422,630	81— 64: 1,422,302	111— 85: 1,422,454	148— 13: 1,422,710
50: 1,422,332	86.4: 1,422,557	55— 34: 1,422,173	101: 1,422,689	112— 2: 1,422,220	30: 1,422,530
83: 1,422,758	87.1: 1,422,326	39: 1,422,090	103: 1,422,563	147: 1,422,176	29: 1,422,554
106: 1,422,366	88.2: 1,422,390	58— 38: 1,422,590	106: 1,422,548	152: 1,422,808	1,422,724
113: 1,422,435	96: 1,422,491	59— 80: 1,422,776	119: 1,422,402	219: 1,422,639	151— 25: 1,422,750
139: 1,422,441	149.5: 1,422,652	61— 25: 1,422,076	121: 1,422,067	252: 1,422,407	152— 10: 1,422,791
144: 1,422,281	1: 1,422,655	62— 99: 1,422,628	157: 1,422,471	113— 1: 1,422,644	13: R. 15, 405
1,422,604	30— 3: 1,422,352	64— 17: 1,422,360	174: 1,422,621	18: 1,422,192	14: 1,422,078
3— 12: 1,422,468	1: 1,422,400	19: 1,422,389	3.2: 1,422,626	105: 1,422,357	16: 1,422,117
2: 1,422,714	10: 1,422,363	21: 1,422,677	9: 1,422,618	113: 1,422,605	17: 1,422,123
12: 1,422,718	11: 1,422,786	21: 1,422,741	11: 1,422,761	116: 1,422,314	1,422,290
4— 4: 1,422,226	6: 1,422,488	25: 1,422,448	26: 1,422,524	61: 1,422,542	19: 1,422,113
1,422,227	12: 1,422,452	26: 1,422,597	42: 1,422,102	73: 1,422,354	24: 1,422,495
5: 1,422,320	31: 1,422,345	50: 1,422,585	56: 1,422,230	116— 34: 1,422,068	37: 1,422,723
41: 1,422,744	76: 1,422,641	62: 1,422,162	1,422,807	35: 1,422,179	45: 1,422,479
43: 1,422,405	147: 1,422,161	96: 1,422,339	82: 1,422,092	52: 1,422,330	153— 48: 1,422,779
56: 1,422,619	1,422,169	1,422,638	87: 1,422,736	63: 1,422,210	80.5: 1,422,762
9— 11: 1,422,657	1,422,576	66— 12: 1,422,799	84— 41: 1,422,276	119— 19: 1,422,283	154— 2: 1,422,451
18: 1,422,071	185: 1,422,746	18: 1,422,249	140: 1,422,713	25: 1,422,624	46: 1,422,670
1,422,533	209: 1,422,118	68: 37: 1,422,547	145: 1,422,275	44: 1,422,250	136: 1,422,319
22: 1,422,175	212: 1,422,231	70— 29: 1,422,690	271: 1,422,769	120— 24: 1,422,555	155— 14: 1,422,539
10— 11: 1,422,274	215: 1,422,743	46: 1,422,595	301: 1,422,784	121— 140: 1,422,437	15: 1,422,772
122: 1,422,222	34— 39: 1,422,620	47: 1,422,497	304: 1,422,738	123— 55: 1,422,143	158— 1: 1,422,416
154: R. 15, 410	46: 1,422,202	1,422,515	88— 1: 1,422,527	90: 1,422,373	27: 1,422,740
12— 14.1: 1,422,806	5: 1,422,642	1,422,516	19.3: 1,422,410	143: 1,422,794	36: 1,422,369
14— 42: 1,422,717	36— 30: 1,422,716	1,422,517	20: 1,422,303	148: R. 15, 408	42: 1,422,079
15— 7: 1,422,445	37: 1,422,511	1,422,518	24: 1,422,149	170: 1,422,426	45.5: 1,422,311
11: 1,422,501	63: 1,422,683	1,422,519	89— 27: 1,422,238	173: 1,422,565	71: 1,422,752
147: 1,422,368	72: 1,422,446	1,422,520	41: 1,422,099	174: 1,422,679	1: 1,422,199
173: 1,422,739	77: 1,422,543	1,422,594	46: 1,422,678	177: 1,422,338	1,422,582
188: 1,422,100	5: 1,422,754	53: 1,422,645	9: 1,422,462	188: 1,422,138	166— 10: 1,422,704
210: 1,422,166	30: 1,422,601	90: 1,422,372	13.2: 1,422,155	12— 12: 1,422,296	169— 32: 1,422,406
84: 1,422,163	49: 1,422,753	91: 1,422,467	12: 1,422,545	20: 1,422,472	170— 26: 1,422,602
120: 1,422,355	60: 1,422,417	115: 1,422,214	18: 1,422,757	41: 1,422,379	171— 170: 1,422,109
149: 1,422,651	7: 1,422,529	125: 1,422,336	32: 1,422,083	58: 1,422,087	73: 1,422,672
201: 1,422,399	15: 1,422,404	128: 1,422,353	20: 1,422,251	60: 1,422,088	95: 1,422,317
7: 1,422,217	39: 1,422,577	6: 1,422,434	43: 1,422,541	90: 1,422,449	119: 1,422,120
1: 1,422,159	113: 1,422,235	38: 1,422,146	7: 1,422,300	99: 1,422,160	1,422,653
12: 1,422,356	125: 1,422,502	105: 1,422,636	36: 1,422,544	107: 1,422,195	207: 1,422,145
1,422,561	132: 1,422,480	109: 1,422,694	40: 1,422,580	132: 1,422,556	1,422,584
17: 1,422,209	1,422,629	116: R. 15, 406	58: 1,422,095	276: 1,422,603	242: 1,422,429
38: 1,422,084	1,422,669	122: 1,422,157	94— 11: 1,422,193	288: 1,422,465	252: 1,422,414
51: 1,422,095	26: 1,422,599	1: 1,422,089	1,422,551	10: 1,422,328	266: 1,422,484
53: 1,422,147	42— 57: 1,422,392	51: 1,422,522	63: 1,422,460	119: 1,422,153	324: 1,422,188
54: 1,422,412	75: 1,422,237	52: 1,422,378	64: 1,422,461	177: 1,422,778	172— 179: 1,422,134
56: 1,422,469	43— 45: 1,422,457	110: 1,422,256	75: 1,422,665	234: 1,422,490	1,422,592
1,422,537	45: 1,422,457	111: 1,422,278	100: 1,422,341	321: 1,422,538	239: 1,422,243
61: 1,422,579	87: 1,422,424	165: 1,422,112	4: 1,422,194	129— 1: 1,422,489	285: 1,422,427
25: 1,422,745	112: 1,422,287	185: 1,422,385	28: 1,422,693	1,422,696	173— 273: 1,422,765
99: 1,422,581	147: 1,422,253	6: 1,422,324	32: 1,422,418	15: 1,422,297	328: 1,422,257
68: 1,422,569	44— 42: 1,422,698	7: 1,422,144	60: 1,422,350	1,422,298	332: 1,422,241
22— 124: 1,422,675	45— 11: 1,422,313	8: 1,422,633	12: 1,422,119	1,422,299	354: 1,422,170
147: 1,422,572	17: 1,422,701	1,422,633	14: 1,422,126	1,422,367	174— 89: 1,422,396
153: 1,422,108	31: 1,422,101	26: 1,422,550	1,422,627	22: 1,422,578	175— 183: 1,422,224
184: 1,422,232	46: 1,422,450	29: 1,422,440	32: 1,422,790	39: 1,422,600	294: 1,422,110
1: 1,422,327	48: 1,422,246	33: 1,422,323	34: 1,422,597	51: 1,422,165	1,422,470
1,422,335	52: 1,422,612	36: 1,422,344	94: 1,422,631	29: 1,422,347	337: 1,422,523
1,422,699	1,422,613	38: 1,422,598	105: 1,422,409	41: 1,422,593	354: 1,422,481
1,422,801	99: 1,422,685	50: 1,422,792	115: 1,422,142	48: 1,422,464	364: 1,422,395
3: R. 15, 409	105: 1,422,409	54: 1,422,510	122: 1,422,397	52: 1,422,607	375: 1,422,625
1,422,080	115: 1,422,142	56: 1,422,647	133: 1,422,364	81: 1,422,787	176— 1: 1,422,553
1,422,421	122: 1,422,397	58: 1,422,098	1,422,682	83: 1,422,606	7: 1,422,747
5: 1,422,242	133: 1,422,364	59: 1,422,072	1,422,759	1: 1,422,115	36: 1,422,443
13: 1,422,560	1,422,365	99: 1,422,401	23: 1,422,394	48: 1,422,292	121: 1,422,439
1,422,568	22: 1,422,766	108: 1,422,729	53: 1,422,764	51: 1,422,711	149: 1,422,487
1,422,703	40: 1,422,075	109: 1,422,273	111: 1,422,473	53: 1,422,212	176: 1,422,447
22: 1,422,571	1,422,436	1: R. 15, 407	112: 1,422,650	103: 1,422,444	180— 8: 1,422,558
24: 11: 1,422,610	41: 1,422,775	1,422,096	38: 1,422,111	139: 1,422,771	1,422,751
32: 1,422,430	57: 1,422,789	1,422,581	82: 1,422,164	160: 1,422,403	9.2: 1,422,082
85: 1,422,658	61: 1,422,383	1,422,596	1,422,793	23: 1,422,705	16: 1,422,709
129: 1,422,660	67: 1,422,643	206: 1,422,116	150: 1,422,255	40: 1,422,722	17: 1,422,375
1,422,804	73: 1,422,093	224: 1,422,596	205: 1,422,074	85: 1,422,727	21: 1,422,438
153: 1,422,148	1,422,206	248: 1,422,133	206: 1,422,116	1,422,728	50: 1,422,380
206: 1,422,482	173: 1,422,573	377: 1,422,139	224: 1,422,596	77: 1,422,455	64: 1,422,622
211: 1,422,513	77: 1,422,611	420: 1,422,562	248: 1,422,133	123.5: 1,422,803	69: 1,422,305
236: 1,422,428	80: 1,422,358	29: 1,422,720	377: 1,422,139	26: 1,422,463	82: 1,422,318
25— 32: 1,422,150	132: 1,422,505	34: 1,422,483	420: 1,422,562	159: 1,422,316	44: 1,422,105
118: 1,422,371	158: 1,422,635	52: 1,422,382	8: 1,422,114	296: 1,422,272	48: 1,422,211
121: 1,422,370	166: 1,422,097	108— 6: 1,422,526	23: 1,422,720	144— 53: 1,422,411	184— 27: 1,422,608
27— 7: 1,422,726	206: 1,422,200	109— 1: 1,422,295	35: 1,422,456	61: 1,422,387	187— 87: 1,422,774
28— 21: 1,422,073	240: 1,422,749	3: 1,422,308	54: 1,422,483	67: 1,422,322	2: 1,422,285
64: 1,422,271	280: 1,422,707	3.1: 1,422,760	32: 1,422,382	7: 1,422,731	4: 1,422,646
70: 1,422,106	1: 1,422,156	33: 1,422,478	108— 6: 1,422,526	11: 1,422,391	8: 1,422,203
17: 1,422,085	33: 1,422,478	60: 1,422,121	109— 1: 1,422,295	14: 1,422,708	31: 1,422,221
38: 1,422,140	53— 1: 1,422,156				199: 1,422,125

188—	203: 1, 422, 499	204—	63: 1, 422, 733	221—	11: 1, 422, 768	244—	29: 1, 422, 288	260—	128: 1, 422, 494	280—	92: 1, 422, 671
	204: 1, 422, 423	206—	46: 1, 422, 233		95: 1, 422, 559		1, 422, 614		138: 1, 422, 475		96.1: 1, 422, 346
189—	29: 1, 422, 301	207—	1: 1, 422, 532		100: 1, 422, 124		1, 422, 615		156: 1, 422, 583		104: 1, 422, 567
192—	11: 1, 422, 218	208—	42: R. 15, 404	224—	29: 1, 422, 094	246—	69: 1, 422, 349		170: 1, 422, 182		124: 1, 422, 795
	116: 1, 422, 640		102: 1, 422, 172	226—	128: 1, 422, 198		1, 422, 616		172: 1, 422, 183		153: 1, 422, 388
197—	102: 1, 422, 267		113: 1, 422, 171	228—	55: 1, 422, 654	247—	410: 1, 422, 191	261—	44: 1, 422, 329	282—	21: 1, 422, 132
	160: 1, 422, 617		140: 1, 422, 632	229—	41: 1, 422, 540	248—	1: 1, 422, 374		51: 1, 422, 413	283—	23: 1, 422, 245
198—	186: 1, 422, 433	210—	6: 1, 422, 674	230—	22: 1, 422, 070		24: 1, 422, 128	262—	3: 1, 422, 204	287—	52: 1, 422, 598
	34: 1, 422, 229		55: 1, 422, 514		24: 1, 422, 376		30: 1, 422, 177		28: 1, 422, 386		1, 422, 697
	48: 1, 422, 534		131: 1, 422, 190	234—	1: 1, 422, 476		38: 1, 422, 304	265—	9: 1, 422, 141		53: 1, 422, 158
	88: 1, 422, 492	211—	2: 1, 422, 659		1, 422, 477		65: 1, 422, 223		36: 1, 422, 104		103: 1, 422, 265
	122: 1, 422, 252		13: 1, 422, 782	235—	1.5: 1, 422, 207	249—	1: 1, 422, 664	266—	1: 1, 422, 575	290—	30: 1, 422, 415
	129: 1, 422, 673		36: 1, 422, 800	236—	45: 1, 422, 686		41: 1, 422, 312		7: 1, 422, 309		48: R. 15, 403
	151: 1, 422, 151	212—	79: 1, 422, 687	238—	58: 1, 422, 069	250—	11: 1, 422, 466		19: 1, 422, 684	292—	33: 1, 422, 589
	185: 1, 422, 656		142: 1, 422, 459		53: 1, 422, 425	251—	105: 1, 422, 178	267—	18: 1, 422, 566		86: 1, 422, 748
	192: 1, 422, 662	213—	59: 1, 422, 293		164: 1, 422, 623	253—	51: 1, 422, 458		20: 1, 422, 587		111: 1, 422, 691
	194: 1, 422, 208		67: 1, 422, 189		193: 1, 422, 187		136: 1, 422, 700		25: 1, 422, 586		216: 1, 422, 783
	199: 1, 422, 398	214—	14: 1, 422, 493		324: 1, 422, 260	254—	26: 1, 422, 262		46: 1, 422, 086		228: 1, 422, 504
	211: 1, 422, 798		23: 1, 422, 442		349: 1, 422, 340		95: 1, 422, 781		47: 1, 422, 755		271: 1, 422, 680
	220: 1, 422, 270		1, 422, 756	240—	7: 1, 422, 528		103: 1, 422, 279	268—	14: 1, 422, 552	293—	55: 1, 422, 103
	232: 1, 422, 091		38: 1, 422, 663		8.5: 1, 422, 239		188: 1, 422, 174	271—	11: 1, 422, 535		1, 422, 546
199—	37: 1, 422, 333		65.5: 1, 422, 254		1, 422, 331		192: 1, 422, 263	274—	2: 1, 422, 310		1, 422, 777
200—	7: 1, 422, 549		81.5: 1, 422, 432		22: 1, 422, 668	255—	13: 1, 422, 531		1, 422, 453	294—	82: 1, 422, 228
	26: 1, 422, 725		131: 1, 422, 667		41: 1, 422, 307		35: 1, 422, 289		10: 1, 422, 712		115: 1, 422, 215
	97: 1, 422, 702		134: 1, 422, 767		1, 422, 525		64: 1, 422, 264		21: 1, 422, 321	296—	23: 1, 422, 498
	114: 1, 422, 248		135: 1, 422, 259		44: 1, 422, 385		72: 1, 422, 361		37: 1, 422, 266		138: 1, 422, 431
	122: 1, 422, 802	215—	100: 1, 422, 574		75: 1, 422, 236		75: 1, 422, 236	277—	37: 1, 422, 343	298—	19: 1, 422, 077
	130: 1, 422, 122	216—	21: 1, 422, 152		62: 1, 422, 732		182: 1, 422, 588		43: 1, 422, 681		21: 1, 422, 500
	132: 1, 422, 419	217—	5: 1, 422, 422		92: 1, 422, 244	256—	48: 1, 422, 127	278—	76: 1, 422, 247	299—	77: 1, 422, 359
	1, 422, 420		48: 1, 422, 797		115: 1, 422, 796	257—	82: 1, 422, 570	280—	5: 1, 422, 107		141: 1, 422, 291
153: 1, 422, 180		219—	25: 1, 422, 735	242—	71: 1, 422, 131		129: 1, 422, 315		1, 422, 325	301—	15: 1, 422, 661
	1, 422, 181		28: 1, 422, 721		77: 1, 422, 785		132: 1, 422, 306		33.2: 1, 422, 129		23: 1, 422, 408
201—	63: 1, 422, 737		35: 1, 422, 348		150: 1, 422, 240		155: 1, 422, 282		33.8: 1, 422, 186		32: 1, 422, 715
202—	8: 1, 422, 269		76: 1, 422, 130	244—	1: 1, 422, 503		229: 1, 422, 521		47: 1, 422, 277		44: 1, 422, 377
	1, 422, 496	220—	6: 1, 422, 692		12: 1, 422, 261	259—	1: 1, 422, 213		61: 1, 422, 730		64: 1, 422, 167
	9: 1, 422, 634		39: 1, 422, 342		18: 1, 422, 384	260—	11: 1, 422, 294		83: 1, 422, 362		66: 1, 422, 168
	1, 422, 706		66: 1, 422, 219		29: 1, 422, 197		125: 1, 422, 506		87.5: 1, 422, 284		81: 1, 422, 637
204—	62: 1, 422, 135										

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. No. 1,423,291; July 18.
- Air Reduction Company. (See Metzger, Floyd J., assignor.)
- Alexay, Adalbert, Avenal, N. J., assignor to Simplex Paper Accessories Co. Inc., Brooklyn, N. Y. Dispensing device. No. 1,423,063; July 18.
- Allen, Anson W. (See Ryding, H. C., and Allen.)
- Allen, Frank R. (See Mitchell, William F., assignor.)
- Allen, William R., and T. K. McRea, Glacier, Wash.; said McRea assignor to said Allen. Spar-tree protector and fastening device for high-lead blocks. No. 1,423,292; July 18.
- Amend, Otto P., New York, N. Y. Carbureting liquid fuels. No. 1,423,064; July 18.
- American Multigraph Company, The. (See Chisholm, Clifton, assignor.)
- American Stove Company. (See Blackford, Atwell J., assignor.)
- Ames, Fletcher, Berkeley, Calif. Tent and bed. No. 1,423,171; July 18.
- Amsler, Alfred, Schaffhausen, Switzerland. Tonometer. No. 1,423,293; July 18.
- Anderson, Adolph, West Allis, Wis. Card holder. No. 1,423,294; July 18.
- Anderson, Adolph F., assignor to Apex Appliance Company, Chicago, Ill. Washing machine. No. 1,423,295; July 18.
- Anderson, Charles J., and W. H. Van Dyke, Corning, N. Y. Combination lock. No. 1,423,384; July 18.
- Anderson, Charles W., Brooklyn, N. Y. Power control for drive mechanism. No. 1,422,809; July 18.
- Anderson, Charles W., Brooklyn, N. Y. Ratchet clutch for drive mechanism. No. 1,423,172; July 18.
- Anderson, Gustave F., assignor to Paragon Can & Cap Company, Inc., Brooklyn, N. Y. Cap-feeding device for threading machines. No. 1,423,173; July 18.
- Angus, John P., Tonawanda, N. Y. Automatic train-control device. No. 1,423,385; July 18.
- Applegate, Edward B., and W. H. Yeomans, assignors to Imperial Furniture Company, Grand Rapids, Mich. Glue mixing and preserving apparatus. No. 1,422,811; July 18.
- Appel, Walter D., Cleveland Heights, Ohio. Internal-combustion engine. No. 1,422,810; July 18.
- Apex Appliance Company. (See Anderson, Adolph F., assignor.)
- Armstrong, Percy A. E., Watervliet, N. Y. Bearing. No. 1,422,812; July 18.
- Armstrong, Robert F., Kansas City, Mo. Artificial body member. No. 1,423,296; July 18.
- Armstrong, William H., New Orleans, La. Poison-bottle cap. No. 1,423,174; July 18.
- Arnold, Sherman L., Woodlawn, Pa. Bed bottom. No. 1,423,065; July 18.
- Aronson, Louis V., Newark, N. J. Temperature indicator. No. 1,423,066; July 18.
- Asbestos, Shingle, Slate & Sheathing Company. (See Mattison, Richard V., assignor.)
- Atlas Devices Company. (See Leavitt, F. S., and Staples, assignors.)
- Atwood, Harry N., and G. B. Bains, 3d, Reading, Pa. Laminated composite wheel. No. 1,422,813; July 18.
- Augustine, Addison E., Hackensack, N. J., assignor to Chester Machine Co., Inc., New York, N. Y. Drying blower for envelope-making machines. No. 1,423,297; July 18.
- Austin, James D., and T. Roberts, Harrisburg, Ill. Sign carrier. No. 1,422,911; July 18.
- Automatic Takeup Nut Company. (See Gumber, J., and Fearhelly, assignors.)
- Automotive Parts Company. (See Schwitzer, Louis, assignor.)
- Available Truck Company, The. (See Rath, Joseph J., assignor.)
- Averill, Elias M., Sparta, Mich. Collapsible box. No. 1,422,912; July 18.
- Aymard, Malcolm F. L. A., Colchester, England. Variable-speed gearing. No. 1,423,067; July 18.
- Ayres, Elwood B., and T. H. Rhoads, assignors to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Drier. No. 1,423,298; July 18.
- Bains, George B., 3d. (See Atwood, H. N. and Bains.)
- Bair, Joseph H., Philadelphia, Pa., assignor of eighteen-sixtieths to J. O. David, Philadelphia, Pa., fifteen-sixtieths to H. S. Knight, Chicago, Ill., and ten-sixtieths to L. H. Taylor Jr., Philadelphia, Pa. Fluid-power transmission apparatus. No. 1,423,386; July 18.
- Baker, Ernest P., Manson, Iowa. Dispensing apparatus. No. 1,422,913; July 18.
- Baker, Newton D., Secretary of War, trustee. (See Butler, John S., assignor.)
- Baker, Newton D., Secretary of War, trustee. (See Josephs, Lyman C., Jr., assignor.)
- Baker, William E., West Norwood, England. Ironing machine. No. 1,423,068; July 18.
- Ballard, Herbert T., Norristown, Pa. Knitting machine. No. 1,423,175; July 18.
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Dissolving or recovering metals. No. 1,423,069; July 18.
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Precipitating metals from solutions. No. 1,423,070; July 18.
- Bardt, Hans, assignor to Sociedad Hidro-Metalurgica, Santiago, Chile. Manufacturing electrodes. No. 1,423,071; July 18.
- Barker, Perry W., Youngstown, Ohio. Automatic feeder for presses. No. 1,422,914; July 18.
- Barry, John E. (See Le Merle, F. G., Ullman, and Barry.)
- Bartelt, Walter C., Thiensville, Wis. Building block and wall construction. No. 1,422,814; July 18.
- Bartholomäus, Rudolf, Berlin, Germany. Means for drilling polygonal holes. No. 1,423,072; July 18.
- Basic Products Corporation. (See Popper, Isaac C., assignor.)
- Bassett, Reuben T. (See Crossley, Albert D., assignor.)
- Batchelder, Asa F., Schenectady, N. Y., assignor to General Electric Company. Resilient wheel. No. 1,423,299; July 18.
- Beck Duplicator Company, The. (See Danheiser, T., and Fecher, assignors.)
- Beck, George E., Cleveland, Ohio. Separator for storage-battery plates. No. 1,422,815; July 18.
- Geeman, Walter E., Laporte, Ind. Demountable rim. No. 1,423,176; July 18.
- Beers, Frederick, New Rochelle, and H. L. Powell, assignors to National Biscuit Company, New York, N. Y. Elevating device. No. 1,422,816; July 18.
- Beers, Frederick, New Rochelle, and H. L. Powell, New York, N. Y., assignors to National Biscuit Company, New York, N. Y. Drier or oven. No. 1,422,817; July 18.
- Behn, Adolph, and J. G. Schmitt, Brooklyn, N. Y. Internal-combustion motor. No. 1,423,073; July 18.
- Benjamins, Israel, Brooklyn, N. Y. Rim and tire for automobile and other wheels. No. 1,422,818; July 18.
- Benson, David, and G. K. Bruce, Des Moines, Iowa. Ventilated automobile driver's seat. No. 1,422,915; July 18.
- Benzine Condensation Co. (See Boecler, Albert, assignor.)
- Bergdoll, Louis J., now, by judicial change of name L. J. Bergson, Philadelphia, Pa. Phonographic sound box. No. 1,423,387; July 18.
- Betcher, Gotfried, Portland, Oreg. Logging hook. No. 1,423,301; July 18.
- Betts, William H., Portland, Oreg. Screen gasket. No. 1,422,916; July 18.
- Bilton Machine Tool Company, The. (See Hoagland, Frank O., assignor.)
- Birchbauer, Ferdinand, assignor of one-half to J. H. Fallin, Baltimore, Md. Internal-combustion engine. No. 1,423,477; July 18.
- Bisey, Sunker Ag., New York, N. Y. Line-slug-casting machine. No. 1,423,388; July 18.
- Bjorkman, Axel W., Brooklyn, N. Y. Soldering device. No. 1,422,917; July 18.
- Blackford, Atwell J., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Wickless oil burner. No. 1,423,302; July 18.
- Blaicher, Ernest C., Irvington, N. J., assignor to Interstate Smelting and Refining Co., Inc., Newark, N. J. Finger ring. No. 1,422,819; July 18.
- Blake, John H., Jr. (See Hewitt, E. R., and Blake.)
- Blakeslee, George S., Chicago, Ill. Machine for washing boxes, cans, and other articles. No. 1,423,300; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle. No. 1,423,389; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,423,390; July 18.

- Blakeman, William N., Jr., Mount Vernon, N. Y. Pigment composition for paints. No. 1,423,391; July 18.
- Blakeman, William N., Jr., Mount Vernon, N. Y. Oil. No. 1,423,392; July 18.
- Block, Alexander, New York, N. Y. Lock. No. 1,422,820; July 18.
- Blything, John F. (See Glaser, Oscar L., assignor.)
- Boardman, Charles S., and C. C. Conkling, deceased, Buffalo; L. C. Conkling, executrix, assignors to Lackawanna Steel Company, Lackawanna, N. Y. Sheet-piling wall construction. No. 1,422,821; July 18.
- Boecker, Albert, Malmö, Sweden, assignor to Benzine Condensation Co., Inc. Machine for applying solutions of rubber or the like to fabrics. No. 1,422,822; July 18.
- Bohner, John C., Bradley, assignor to Sears, Roebuck and Company, Chicago, Ill. Disk bearing. No. 1,422,918; July 18.
- Bolger, John E. (See Condy, Alice, assignor.)
- Bonnelycke, Emil. (See Karr, Henry C., assignor.)
- Bonsall, Charles D., Parnassus, Pa., assignor to W. P. Murphy, New York, N. Y. Reinforced car end-wall structure. No. 1,422,823; July 18.
- Bose, Monte H., Indianapolis, Ind. Radiator-petcock attachment. No. 1,422,919; July 18.
- Boston, Arvel A., New Martinsville, W. Va. Battery filler. No. 1,423,393; July 18.
- Bosworth, George P., assignor, by mesne assignments, to Hemphill Company, Central Falls, R. I. Circular-stocking machine. No. 1,423,177; July 18.
- Bowman, Jack J., Portland, Oreg. Angle bar and nut lock. No. 1,423,394; July 18.
- Brabson, Tom, Brooklyn, N. Y. Valve. No. 1,423,178; July 18.
- Braden, Charles H., assignor to National Airless Tire Company, Los Angeles, Calif. Airless tire. No. 1,423,074; July 18.
- Bradley, Ralph A. (See McNally, J. F., and Bradley.)
- Brand, George P., New York, N. Y. Tracking device for player pianos. No. 1,422,824; July 18.
- Brandenburg, Francis C., Piqua, Ohio. Staggered tooth cutter for dressing abrasive elements. No. 1,423,075; July 18.
- Brauham, Hugh M., Brooklyn, N. Y. Depth gear for torpedoes. No. 1,423,179; July 18.
- Breeding, Andrew J. (See Burke, P. W., and Breeding.)
- Briggs & Stratton Company. (See Soreng, Edgar M., assignor.)
- Brill, J. G., Company, The. (See Brooks, James A., assignor.)
- Brobst, William E., Jr., Noblesville, Ind. Equalizer for vehicle suspension. No. 1,423,180; July 18.
- Brooks, James A., assignor to The J. G. Brill Company, Philadelphia, Pa. Safety gate for cars. No. 1,423,303; July 18.
- Brooks, Raymond, Benson Mines, N. Y. Theater seat. No. 1,422,825; July 18.
- Broomell, Albert P., deceased, York, Pa.; J. L. Broomell, executrix. Oil-burning apparatus. No. 1,423,181; July 18.
- Broomell, Janet L., executrix. (See Broomell, Albert P.)
- Brown, Carlton E., Chicago, Ill. Bracket for printometers. No. 1,423,182; July 18.
- Brown, Edward W., assignor of nine-tenths to The Brown Motor Company, Sparks, and one-tenth to R. P. Roope, Chandler, Okla. Motor. No. 1,423,395; July 18.
- Brown, Frank O., St. Louis, Mo. Electrically-heated tongs. No. 1,422,826; July 18.
- Brown Instrument Company, The. (See Brown, R. P., and Wagner, assignors.)
- Brown Motor Company, The, et al. (See Brown, Edward W., assignor.)
- Brown, Richard P., and F. Wagner, assignors to The Brown Instrument Company, Philadelphia, Pa. Multiple-recording instrument. No. 1,422,920; July 18.
- Brown, William I., Syracuse, N. Y. Attachment for violins and analogous string instruments. No. 1,422,827; July 18.
- Bruce, George K. (See Benson, D., and Bruce.)
- Brundage, Harry, San Francisco, Calif., assignor to G. W. Koerner, New York, N. Y. Paper file and binder. No. 1,423,076; July 18.
- Bryant Electric Company, The. (See Catlin, Hoyt, assignor.)
- Buckham, George T. (See Dawson, A. T., and Buckham.)
- Rudd Wheel Company. (See Ledwinka, Joseph, assignor.)
- Buller, Charles M., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Pipeless furnace. No. 1,422,828; July 18.
- Burdon, William M., assignor to Burdons Limited, Bellshill, Scotland. Apparatus for the liquid-fuel firing of steam boilers. No. 1,423,183; July 18.
- Burdons Limited. (See Burdon, William M., assignor.)
- Burke, Peter W., and A. J. Breeding, assignors of one-third to F. Rogers, Bremerton, Wash. Oiling device. No. 1,423,077; July 18.
- Burner, William L. (See Cotton, J. H., and Burner.)
- Burns, William D., Armenia, N. Y. Roller bearing. No. 1,423,304; July 18.
- Burton, Charles S., Oak Park, Ill. Container for music rolls and the like. No. 1,422,829; July 18.
- Bush Electric Company, The. (See Bush, Hazel B., assignor.)
- Bush, Hazel B., Bedford, assignor to The Bush Electric Company, Cleveland, Ohio. Fuse replacing and removing implement. No. 1,422,830; July 18.
- Butler, John S., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Luminous gun sight. No. 1,423,184; July 18.
- Bylund, Eric, Winnipeg, Manitoba, Canada. Vehicle tire. No. 1,422,921; July 18.
- Cable Company, The. (See Hagey, James C., assignor.)
- Cady, Willis E., Chicago, Ill. Air-brake handle. No. 1,423,185; July 18.
- Calandra, Vincent, Buffalo, N. Y. Budding implement. No. 1,423,491; July 18.
- Callahan, Timothy F., Squantum, Mass. Liquid measuring and dispensing apparatus. No. 1,423,305; July 18.
- Campbell, Bert L., Chicago, Ill. Automatic cut-out. No. 1,422,923; July 18.
- Cameron, Burr S., Douglassville, Tex. Airplane landing director. No. 1,422,922; July 18.
- Camp, William W., Denver, Colo. Vermin exterminator. No. 1,422,831; July 18.
- Cantwell, Edward J., Kansas City, Mo. Hay stacker. No. 1,422,924; July 18.
- Caplan, Harry, Detroit, Mich. Vehicle fender. No. 1,423,186; July 18.
- Caplan, Harry, Detroit, Mich. Automobile fender. No. 1,423,187; July 18.
- Cathcart, Oswald J., Newburgh, N. Y. Vanity case. No. 1,423,079; July 18.
- Catlin, Hoyt, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,423,306; July 18.
- Caracristi, Virginius Z., Bronxville, N. Y., and A. F. Wallbillich, Newark, N. J. Valve cut-off and speed indicator for locomotives. No. 1,422,832; July 18.
- Carbide & Carbon Chemicals Corporation. (See Curme, George O., Jr., assignor.)
- Cardin, William O., assignor to J. W. Freeman, Joplin, Mo. Dehydrator. No. 1,423,188; July 18.
- Carlson, Edward L., Denver, Colo. Music-roll cabinet. No. 1,423,078; July 18.
- Carlson, John W., assignor to Chicago Novelty Mfg. Co., Chicago, Ill. Toy. No. 1,422,833; July 18.
- Cary Manufacturing Co. (See Cary, Spencer C., assignor.)
- Cary, Spencer C., assignor to Cary Manufacturing Co., Brooklyn, N. Y. Bundled wire. No. 1,423,478; July 18.
- Carter, James D., Chicago, Ill. Proportional scaling instrument. No. 1,422,925; July 18.
- Central States Bridge Company. (See Riley, Austin A., assignor.)
- Chadwick, George C., Melbourne, Victoria, Australia. Unloading apparatus. No. 1,422,926; July 18.
- Champlin, Herbert H. (See Davis, M. L., and Cook, assignors.)
- Chausse, Wilfrid G., Detroit, Mich. Safety device for gas generating and heating apparatus. No. 1,423,080; July 18.
- Cherry, Lester A., Kenmore, N. Y. Regulator for vapor-heating systems. No. 1,423,492; July 18.
- Chester Machine Co. Inc. (See Augustine, Addison E., assignor.)
- Chew, Manley, Midland, Ontario, Canada. Fiber board. No. 1,423,081; July 18.
- Clew, Manley, Midland, Ontario, Canada. Apparatus for producing fiber board. No. 1,423,082; July 18.
- Chew, Manley, Midland, Ontario, Canada. Producing fiber board. No. 1,423,083; July 18.
- Chicago Novelty Mfg. Co. (See Carlson, John W., assignor.)
- Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Impression mechanism for addressing machines. No. 1,423,189; July 18.
- Chromy, George, deceased, Stewart, Minn., J. Chromy, administrator. Automatic train-stopping means. No. 1,423,306; July 18.
- Chromy, Joseph, administrator. (See Chromy, George.)
- Cilley, Vrl I. (See Freeman, W. F., and Cilley.)
- Clark, John G., Holyoke, Mass. Computing device. No. 1,423,493; July 18.
- Clavey, Gilbert A., Battersea Park, England. Machine for planing or machining propeller blades. No. 1,423,307; July 18.
- Clements, George, assignor to Clements Mfg. Co., Chicago, Ill. Blower. No. 1,423,190; July 18.
- Clements Mfg. Co. (See Clements, George, assignor.)
- Clevenger, James L., Columbus, Ind. Leather-sole-softening machine. No. 1,422,927; July 18.
- Codman, Russell, Jr. (See Rollins, William T., assignor.)
- Colby, Frank W., Chicago, Ill., assignor to The Kansas City Spiral Pipe Company. Apparatus for manufacturing pipe. No. 1,422,834; July 18.
- Coleman, William O., Indianapolis, Ind. Lock. No. 1,423,397; July 18.
- Colling, George M., Carrington, N. Dak. Combined tow and push bar. No. 1,422,928; July 18.
- Collison, John G., J. W. Wright, H. M. Filbert, Dayton, Ohio, and W. Frank, Miamisburg, Ohio, assignors to The Stemo Engineering Company, Dayton, Ohio. Fluid gauge. No. 1,423,191; July 18.
- Colt, Samuel S., Orange, N. J. Staging for buildings and other structures. No. 1,423,308; July 18.
- Combustion Engineering Corporation. (See Van Brunt, John, assignor.)

- Compression Tube & Tire Co. (See Lobel, Herman, assignor.)
- Condy, Alice, Ashfield, near Sydney, assignor to J. E. Bolger, Sydney, New South Wales, Australia. Kitchen utensil for broiling and toasting food. No. 1,422,835; July 18.
- Conkling, Cloud C. (See Boardman, C. S., and Conkling.)
- Conkling, Lucile C., executrix. (See Boardman, C. S., and Conkling.)
- Connell, Edward F. and J. F., Florence, Mass. Stop motion. No. 1,423,398; July 18.
- Connell, John F. (See Connell, Edward F. and J. F.)
- Converse, Clinton J., Bridgeport, Conn. Milling tool. No. 1,423,192; July 18.
- Cooke, Richard T., Indianapolis, Ind. Power-transmission mechanism. No. 1,422,929; July 18.
- Cook, Glen W. (See Davis, M. L., and Cook.)
- Cooper, Augustus S., Santa Barbara, Calif. Carbon black and producing same. No. 1,423,193; July 18.
- Cooper, James D., Toronto, Ontario, Canada. Railway switch. No. 1,422,836; July 18.
- Corado, Charles E., Winnipeg, Manitoba, Canada. Hydro-carbon burner. No. 1,422,930; July 18.
- Corbett, Claude M., Port Arthur, Tex. Locking device. No. 1,423,194; July 18.
- Corcoran, Thos. J., Lamp Company, The. (See Kuen, Eugene A., assignor.)
- Corell, Martin. (See Kränzelin, G., and Corell.)
- Costantino, Alix, Providence, R. I. Rubber heel. No. 1,423,399; July 18.
- Cotton, James H., and W. L. Burner, assignors to The Kilbourne & Jacobs Manufacturing Company, Columbus, Ohio. Truck coupling. No. 1,423,084; July 18.
- Cox, Ora M., Manayka, and C. C. Rose, Clarksburg, W. Va. Sheet-glass-drawing machine. No. 1,423,195; July 18.
- Craig (chemical Corporation. (See Craig, William E., assignor.) (Reissue.)
- Craig, Louis B., Davenport, Iowa. Lunette bracket. No. 1,423,196; July 18.
- Craig, William E., Joplin, Mo., assignor, by mesne assignments, to Craig Chemical Corporation, Cleveland, Ohio. Treatment for venereal diseases. (Reissue.) No. 1,541; July 18.
- Cramer, Christopher E., Hackensack, N. J. Attachment for paper-making machines. No. 1,423,400; July 18.
- Crandall, Irving B., Nahant, Mass., assignor to Western Electric Company, Incorporated, New York, N. Y. Connecting transmitters to vacuum-tube amplifiers. No. 1,422,837; July 18.
- Crane, Herbert W., Chicago, Ill. Door-controlling device. No. 1,422,931; July 18.
- Critchlow, Edward C., Orcutt, Calif. Pump plunger. No. 1,423,197; July 18.
- Crossley, Albert D., assignor of one-half to R. T. Bassett, Hartford, Conn. Spare-tire carrier. No. 1,422,932; July 18.
- Crossley, David, Trenton, N. J. Power press for tile, mosaic, and the like. No. 1,423,401; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,086; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,086; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal-combustion engine. No. 1,423,087; July 18.
- Crossley, Kenneth L., and W. Le P. Webb, Manchester, England. Internal combustion oil engine. No. 1,423,088; July 18.
- Cross, Roy, Kansas City, Mo., assignor to Gasoline Products Company, Inc., New York, N. Y. Treating petroleum oil. No. 1,423,500; July 18.
- Curme, George O., Jr., Pittsburgh, Pa., assignor to Carbide & Carbon Chemicals Corporation. Chlorinating gaseous hydrocarbons and recovering products therefrom. No. 1,422,838; July 18.
- Curtis, Egbert H., Spring Valley, N. Y. Electrical conduit system. No. 1,423,309; July 18.
- Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
- Curtiss, George E. (See Smith C. F., and Curtiss.)
- Cushman, Allerton S., Washington, D. C. Producing color effects. No. 1,423,089; July 18.
- Danheiser, Theodore, New York, and F. F. Fecher, Brooklyn, N. Y., assignors to The Beck Duplicator Company. Duplicator. No. 1,422,934; July 18.
- Darling, Mary G., Washington, D. C. Protector. No. 1,423,402; July 18.
- Davenport, Thomas L., Everett, Wash. Vacuum jet and system of operating the same. No. 1,423,198; July 18.
- David, James O., et al. (See Bair, Joseph H., assignor.)
- Davis, Alonzo E., Ashtabula, Ohio. Window-sash fastener. No. 1,423,310; July 18.
- Davis, Melvin L., and G. W. Cook, assignors of one-third to H. H. Champlin, Enid, Okla. Pressure-controlled cut-off. No. 1,423,403; July 18.
- Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. High-angle ordnance. No. 1,423,404; July 18.
- Dawson, Robert K., Guelph, Ontario, Canada. Chair base. No. 1,422,933; July 18.
- Dayeh, Louis, Philadelphia, Pa. Combination toothbrush and dentifrice holder. No. 1,423,405; July 18.
- Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
- Dean, Murray F., St. Louis, Mo. Ventilating knob for cooking vessels. No. 1,422,935; July 18.
- De Clamecy, Philippe, assignor to B. F. Sturtevant Company, Boston, Mass. Humidifying air. No. 1,422,839; July 18.
- De Clamecy, Philippe, Boston, Mass., assignor to Remington Typewriter Company, Ithaca, N. Y. Typewriting machine. No. 1,423,311; July 18.
- De Grasse, Consuelo, née Fould, Paris, France. Jointed lay figure, model, or doll. No. 1,422,840; July 18.
- Delano, James K., New York, N. Y. Electric-motor vehicle. No. 1,423,090; July 18.
- De Laval Separator Company, The. (See Hall, Selden H., assignor.)
- De Laval Separator Company, The. (See Hopgood, Cyrus H., assignor.)
- Delph, Asa G., and R. C. Hemphill, Kansas City, Mo. Lock. No. 1,422,936; July 18.
- Derr, Thomas S., Brookline, Mass. Fluid-fuel burner. No. 1,423,312; July 18.
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Seam for sewed articles. No. 1,423,479; July 18.
- Dey, William H., Jersey City, N. J., assignor to United States Radium Corporation. Luminous article and making the same. No. 1,422,841; July 18.
- Dezela, August, Vancouver Island, British Columbia, Canada. Fiber saver. No. 1,423,199; July 18.
- De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,423,091; July 18.
- De Zeng, Henry L., Moorestown, N. J. Optical instrument. No. 1,423,092; July 18.
- Dixon, George B. (See Rivers, W. L., and Dixon.)
- Donahue, George, Hyde Park, assignor, by mesne assignments, to Frederick L. Emery, Lexington, Mass. Car door. No. 1,423,200; July 18.
- Donley, Bert N., Muscatine, Iowa. Detachable handle. No. 1,423,406; July 18.
- Dorcheff, George, alias G. Theodore, Cincinnati, Ohio. Cabbage cutter. No. 1,422,937; July 18.
- Dorsey, Frank M. (See Lenher, V., and Dorsey.)
- Dorsey, Farmer, Wichita, Kans., assignor to Henderson-Willis Welding and Cutting Company, St. Louis, Mo. Gas generator. No. 1,422,938; July 18.
- Dougall, Percy, Kidderminster, England. Internal-combustion engine. No. 1,423,407; July 18.
- Dougall, Wilfrid, Montreal, Quebec, Canada. Reading ribbon in signaling machines. No. 1,422,842; July 18.
- Douglas, Philip F., Minnedosa, Manitoba, Canada. Bobbin winder. No. 1,423,313; July 18.
- Dover Manufacturing Company, The. (See Stranzky, Emil, assignor.)
- Down, Edith B., Watertown, N. Y. Attachment for beds. No. 1,422,939; July 18.
- Duckman, Arthur M., London, England. Gas-fired pottery kiln. No. 1,423,408; July 18.
- Dulaney, H. S. (See Spencer, Charles H., assignor.)
- Dunham Company, The. (See Griswold, R. H., and Powell, assignors.)
- Dunmire, Charles W., and S. C. Enck, Philadelphia, Pa. Washing machine. No. 1,422,940; July 18.
- Ebbenga, Georg L., Sibley, Iowa. Water heater. No. 1,422,941; July 18.
- Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Container-arranging apparatus. No. 1,422,942; July 18.
- Eberly, Sylvester, assignor to D. A. Yoder, Toledo, Ohio. Can-righting machine. No. 1,422,943; July 18.
- Eckroat, Frank P. (See Sevier, C. D., and Eckroat.)
- Economy Shoe Machine Co. (See Terry, George O., assignor.)
- Eddington, A. T. (See Pokorny, James T., assignor.)
- Edmondson, Harvey S., Spokane, Wash. Calculator. No. 1,422,944; July 18.
- Edwards, Karl B., London, England. Manufacture of arsenical compounds. No. 1,422,945; July 18.
- Egersdörfer, Fritz, Charlottenburg, Germany. Rotary machine. No. 1,422,946; July 18.
- Ehret, Cornelius D. (See McCaa, David G., assignor.)
- Eller, Orlando S., Long Beach, Calif. Shoe-button remover. No. 1,422,947; July 18.
- Ellis, Herbert R., Fredericksburg, Va. Card and sign or poster painter's workbench. No. 1,423,201; July 18.
- Emery, Frederick L. (See Donahue, George, assignor.)
- Enck, Schuyler C. (See Dunmire, C. W., and Enck.)
- Ende, Edwin A. (See Norton, G. F., and Ende.)
- Erni, Walter, Milwaukee, Wis. Driving mechanism for washing machines. No. 1,422,843; July 18.
- Eubank, Nathan A., Nashville, Tenn. Tire-rim tool. No. 1,422,948; July 18.
- Evans, John E., Chicago, Ill. Brick. No. 1,422,949; July 18.
- Fairless, Victor H., Trenton, Tenn. Hose protector. No. 1,423,409; July 18.
- Fallin, Joseph H. (See Birchbauer, Ferdinand, assignor.)
- Fanning, John J. (See Grant, A. G., and Fanning.)
- Farbwerke vorm. Meister Lucius & Brüning. (See Kränzelin, G., and Corell, assignors.)
- Fargo, Charles R., and P. O. Unger, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Loose-leaf binder and stand therefor. No. 1,422,950; July 18.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic train-speed-control device. No. 1,422,844; July 18.

- Fate, Daisy L., executrix. (See Fate, John L.)
 Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Apparatus for sealing vacuum jackets. No. 1,423,093; July 18.
 Faurot, Henry, Jr., assignor to Western Felt Works, Chicago, Ill. Window-mounting device. No. 1,422,951; July 18.
 Fawver, William J., Patesville, Ky. Clock escapement. No. 1,423,410; July 18.
 Fearheiley, Fred. F. (See Gumber, J., and Fearheiley.)
 Fecher, Frederick F. (See Danheiser, T., and Fecher.)
 Fellows, Perry E., Rochester, N. Y. Tightening device for antiskid chains. No. 1,423,202; July 18.
 Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Carton-sealing machine. No. 1,423,094; July 18.
 Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Conveyor. No. 1,423,095; July 18.
 Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Transfer mechanism. No. 1,423,096; July 18.
 Ferguson, John L., Joliet, assignor to The Quaker Oats Company, Chicago, Ill. Carton-handling apparatus. No. 1,423,097; July 18.
 Ferguson, John L., Joliet, Ill. Device for operating on containers. No. 1,423,098; July 18.
 Feuillette, Emile, assignor to La Societe des Etablissements E. Feuillette, Boulogne-sur-Seine, France. Tractor wheel. No. 1,422,952; July 18.
 Finch, Stanley W., Washington, D. C. Liquid-level indicator. No. 1,423,411; July 18.
 Fiechtl, Ferdinand, Cherryvale, Kans. Charging car. No. 1,423,314; July 18.
 Filbert, Harry M. (See Collison, J. G., Wright, Filbert, and Frank.)
 Fiske, David, Chicago, Ill. Fish stringer. No. 1,423,203; July 18.
 Fitzsimmons, Norman J. (See Tiffany, Gerald W., assignor.)
 Fonber, Howard L., Altoona, Pa. Shuttle attachment. No. 1,423,099; July 18.
 Foster, Ernest H., Dongan Hills, assignor to Power Specialty Company, New York, N. Y. Superheater. No. 1,422,847; July 18.
 Frank, Walter. (See Collison, J. G., Wright, Filbert, and Frank.)
 Frank, William, assignor of one-half to W. Taylor, Vancouver, British Columbia, Canada. Railway-car water closet. No. 1,422,953; July 18.
 Franks, George M., St. Paul, Minn. Display device. No. 1,422,845; July 18.
 Frazer, Perry D., Ridgewood, N. J. Transfer reel. No. 1,422,954; July 18.
 Fredrikson, Walter O., et al., trustees. (See McArthur, Robert C., assignor.)
 Freeman, J. W. (See Cardin, William O., assignor.)
 Freeman, Marshall J., East Orange, N. J. Spark intensifier. No. 1,423,204; July 18.
 Freeman, William F., and V. I. Cilley, Grand Rapids, Mich. Direction indicator. No. 1,422,955; July 18.
 Fried, Krupp Aktiengesellschaft Germaniaewerft. (See Techel, Hans, assignor.)
 Fried, Krupp Aktiengesellschaft. (See Krüger, Paul, assignor.)
 Fritts, James C., Scranton, Pa. Lock for sliding doors. No. 1,422,846; July 18.
 Frost, Jesse M. (See Souders, H. V., and Frost.)
 Fulton Iron Works Company. (See Hurter, Henry, assignor.)
 Gaar, James M., Richmond, Ind. Vehicle spring. No. 1,422,956; July 18.
 Gagarine, Prince E. (See Karycheff, V., and Gagarine.)
 Gallagher, Robert B., and R. C. Young, Winnipeg, Manitoba, Canada. Bedspring attachment. No. 1,423,100; July 18.
 Gams, Alfons, and E. Wybert, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Preparing optically active aromatic aminoalcohols. No. 1,423,101; July 18.
 Garner, Herman H., Pomona, Calif. Air cleaner. No. 1,423,412; July 18.
 Garvey, Edward S., Clayton, Mo. Ink and making the same. No. 1,422,957; July 18.
 Gasoline Products Company. (See Cross, Roy, assignor.)
 Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Sewing machine. No. 1,423,205; July 18.
 Geddes, John H., Waterbury, Conn. Phonograph record. No. 1,423,206; July 18.
 Geis, Leopold H., Mount Arlington, N. J., assignor to New York Mackintosh Clothing Co., New York, N. Y. Rain cape. No. 1,423,315; July 18.
 Gelin, Charles A., assignor to W. C. Lewis, Chicago, Ill. Journal packing. No. 1,423,207; July 18.
 General Electric Company. (See Batchelder, Asa F., assignor.)
 General Electric Company. (See Laise, Clemens A., assignor.)
 General Electric Company. (See Lenher, V., and Dorsey, assignors.)
 Gerken, Heinrich W., Wandsbek, Germany. Gear for well pumps. No. 1,423,102; July 18.
 Gerlinger, Carl F., Dallas, Oreg. Lumber carrier. No. 1,422,958; July 18.
 Gerstner, Harry H., Dayton, Ohio. Talking-machine disk-record cabinet. No. 1,422,959; July 18.
 Getsinger, William J., Los Angeles, Calif. Tie retainer. No. 1,423,208; July 18.
 Giaque, Jules H., and C. Haesler, Le Locle, Switzerland. Friction clutch. No. 1,423,413; July 18.
 Gibbs, Edward F.-G., Washington, D. C. Advancing cutter-boring tool. No. 1,423,209; July 18.
 Gibson, Edward T., Brooklyn, N. Y. Automobile intention-signaling device. No. 1,422,960; July 18.
 Gillig, Chester H. and L. San Francisco, Calif. Automobile side curtain. No. 1,423,210; July 18.
 Gillig, Leo. (See Gillig, Chester and L.)
 Gill, Julius Q., Peoria, Ill. Cooling compound for hot journal boxes and producing the same. No. 1,423,103; July 18.
 Giovagnoli, John, assignor of two-thirds to Roberts, Nash & Company, Inc., Flushing, N. Y. Mortar spreader. No. 1,423,316; July 18.
 Glaeser, Walter, Brooklyn, assignor to Potash Extraction Corporation, New York, N. Y. Extraction of potassium compounds. No. 1,422,848; July 18.
 Glaser, Oscar L., assignor of one-half to J. F. Blything, Oak Park, Ill. Safety razor. No. 1,423,414; July 18.
 Glass, Harry, Jamaica, N. Y. Self-adjusting bearing. No. 1,422,961; July 18.
 Glass, Matthew, Philadelphia, Pa. Holder. No. 1,423,415; July 18.
 Glasser, Richard, San Francisco, Calif. Extensible ladder for fire escapes. No. 1,423,104; July 18.
 Gleason, C. Roy. (See Fate, John L., assignor.)
 Glenham Embroidery Company. (See Herzog, Louis, assignor.)
 Goddard, Paul B. (See Minshall, Robert, assignor.)
 Godkevitch, Abraham H., New York, N. Y. Wooden shipping case. No. 1,423,317; July 18.
 Gomes, Arthur E., Peoria, Ill. Mattress. No. 1,423,416; July 18.
 Gorman, John F., Spokane, Wash. Display-rack. No. 1,423,417; July 18.
 Goss, Charles E. (See Goss, George W. and C. E.)
 Goss, George W. and C. E., Baltimore, Ohio. Wagon gate construction. No. 1,422,962; July 18.
 Government of the United States represented by the Secretary of the Navy. (See Scheele, Walter T., as signor.)
 Grainger, William H., Toronto, Ontario, Canada. Tie holder. No. 1,422,849; July 18.
 Grant, Arthur G., and J. J. Fanning; said Fanning assignor to J. V. Grant, Yardley, Wash. Railway-switch lock. No. 1,422,963; July 18.
 Grant, John V. (See Grant, A. G., and Fanning, assignors.)
 Grasselli Chemical Company. (See Jordan, Heinrich, assignor.)
 Greenbaum, Harry L., New York, N. Y. Device for use in coloring bulbs. No. 1,422,964; July 18.
 Green Engineering Company. (See Strong, Arthur P., assignor.)
 Green, Oliver, Michigan City, Ind. Signaling device for railways. No. 1,423,318; July 18.
 Greenstreet, Jason H., Indianapolis, Ind. Tool for closing wire-bound boxes. No. 1,422,965; July 18.
 Greenstreet, Jason H., Indianapolis, Ind. Package blank and package. No. 1,422,966; July 18.
 Greif Brothers Cooperage Company, The. (See Raible, John R., assignor.)
 Greitzer, Meyer, New York, N. Y. Lamp shade. No. 1,423,319; July 18.
 Grikscheit, William, assignor of one-half to T. B. Mothersill, Windsor, Ontario, Canada. Drain plug. No. 1,423,418; July 18.
 Griswold, Ray H., Cleveland, and E. J. Powell, Berea, Ohio, assignor to The Dunham Company. Tractor-track obliterater. No. 1,422,967; July 18.
 Gruenberg, Walter A., and D. Miller, Detroit, Mich., assignors to The Miller Transmission Company, New York, N. Y. Milling machine. No. 1,422,850; July 18.
 Gruetter, John R. (See Loew, C. H., and Gruetter.)
 Gumber, Joseph, and F. F. Fearheiley, assignors to Automatic Takeup Nut Company, East Moline, Ill. Compensating device. No. 1,423,480; July 18.
 Gushwa, Charles, Elkhart, Ind. Wire-fence tightener. No. 1,423,211; July 18.
 Gustafson, Adolph P., assignor to M. Schulz Company, Chicago, Ill. Pneumatic action for player pianos and the like. No. 1,423,505; July 18.
 Haas, Louis, assignor to the Société Chimique de la Grande Parissie, Paris, France. Preparation of aromatic nitramines. No. 1,423,494; July 18.
 Haas, Rupert, St. Louis, Mo. Utensil-handling device for bake ovens. No. 1,423,320; July 18.
 Hacker, Henry T., Lovell, Wyo. Gate hinge. No. 1,423,321; July 18.
 Haesler, Charles. (See Giaque, J. H., and Haesler.)
 Haeseler, Charles H., Philadelphia, Pa. Condiment dispenser or container. No. 1,423,322; July 18.
 Hafertepen, Edward B., Cincinnati, Ohio. Boot and shoe. No. 1,422,968; July 18.
 Hagey, James C., assignor of one-half to The Cable Company, Chicago, Ill. Expression device for automatic musical instruments. No. 1,422,969; July 18.

- Halaska, Charles, Milwaukee, Wis. Basket. No. 1,423,419; July 18.
- Halfpenny, William R., Juniata, Pa. Tire. No. 1,422,851; July 18.
- Hall, Akos J., Cleveland, Ohio. Stair landing or platform. No. 1,423,481; July 18.
- Hall, Dean S., Marshfield, Vt. Comb frame for beehives. No. 1,423,212; July 18.
- Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,422,852; July 18.
- Hammonire, John H., Los Angeles, Calif. Derailer. No. 1,423,495; July 18.
- Hancock, John, et al. (See Lemons, Joseph F., assignor.)
- Haney, Lewis H., Los Angeles, Calif. Pump. No. 1,423,496; July 18.
- Hanford, Orrin A., Pasadena, Calif. Portable hand tool for capping, sealing, and unsealing bottles. No. 1,422,970; July 18.
- Hansen, Charles C., Forest Park, assignor to Refrigerating Specialties Company, Chicago, Ill. Controlling mechanism for refrigerating apparatus. No. 1,422,853; July 18.
- Hansen, Svend, New York, N. Y. Bottle cap. No. 1,423,105; July 18.
- Hansen, Svend, New York, N. Y. Bottle cap. No. 1,423,106; July 18.
- Hanson, John, Worcester, Mass. Woodworking machine. No. 1,422,971; July 18.
- Hantsch, Alfred P., New Brunswick, N. J. Plate envelope. No. 1,423,420; July 18.
- Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Centrifugal machine. No. 1,422,856; July 18.
- Harding, Hiram R., assignor to The Harding Peeling Machine Company, Inc., Baltimore, Md. Machine for skinning and coring tomatoes. No. 1,423,421; July 18.
- Harding Peeling Machine Company, The. (See Harding, Hiram R., assignor.)
- Harkness, George K. (See Scruby, B., and Harkness.)
- Harms, Irwin O., Hillsboro, Kans. Shoehorn. No. 1,423,422; July 18.
- Harrington, Harry A., Cuyahoga Falls, Ohio. Electrical generating system. No. 1,423,107; July 18.
- Hart, Max G., Elyria, Ohio. Double cushioned shoe heel or lift. No. 1,422,854; July 18.
- Haskell, Samuel, Brooklyn, N. Y. Shimmy doll. No. 1,422,855; July 18.
- Haynsworth, Julius D., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Electric oven. No. 1,422,857; July 18.
- Hazard, George E., assignor to Kellogg Manufacturing Company, Rochester, N. Y. Valve construction. No. 1,423,323; July 18.
- Heany, John A., New Haven, Conn. assignor, by mesne assignments, to Rockbestos Products Corporation. Clutch mechanism. No. 1,423,108; July 18.
- Heath, Francis, assignor to The Huddersfield, England, Heath Wrapper Company, Littlemoor, Mirfield, England. Wrapping machine. No. 1,423,324; July 18.
- Heath Wrapper Company. (See Heath, Francis, assignor.)
- Heberling, John, Rochester, N. Y. Printing machine. No. 1,423,325; July 18.
- Heeter, Charles M., Butler, Pa. Oil-well packer. No. 1,423,213; July 18.
- Heilman, Guy C., Philadelphia, Pa. Melting tank. No. 1,422,858; July 18.
- Hellen, Jacob L., Kloten, Norway. Producing wheel. No. 1,423,109; July 18.
- Hemphill Company. (See Bosworth, George P., assignor.)
- Hemphill, Robert C. (See Delph, A. G., and Hemphill.)
- Henderson-Willis Welding and Cutting Company. (See Dorsey, Parmer, assignor.)
- Henry, William, Philadelphia, Pa. Dustproof oil ring. No. 1,422,972; July 18.
- Herbst, Kaj T. (See Lundsgaard, C. J. S., and Herbst.)
- Hertzberg, William, Brooklyn, N. Y. Index-card holder. No. 1,422,973; July 18.
- Herzog, Louis, assignor to Glenham Embroidery Company. Beacon, N. Y. Jacquard-card repeating and transposing machine. No. 1,423,110; July 18.
- Herzog, Louis, assignor to Glenham Embroidery Company. Beacon, N. Y. Jacquard-card repeating and transposing machine. No. 1,423,111; July 18.
- Hewitt, Edward R., Midvale, and J. H. Blake, Jr., East Orange, N. J., assignors to International Motor Company, New York, N. Y. Body for farm trucks. No. 1,422,859; July 18.
- Hicks, Charles F., Romeo, Mich. Tire liner. No. 1,423,423; July 18.
- Higgins, Clifford B., assignor of one-half to H. A. Higgins, Detroit, Mich. Art and mechanism for drawing hollow cylindrical metal bodies. No. 1,422,974; July 18.
- Higgins, Harry A. (See Higgins, Clifford B., assignor.)
- Higgins, William H. C., Jr., Laporte, Ind. Supplying a combustible mixture to internal-combustion engines. No. 1,423,482; July 18.
- Hill, Reuben, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Measuring machine for gauges. No. 1,423,214; July 18.
- Hill, Wilford A., Waltham, assignor to B. O. & G. C. Wilson, Inc., Boston, Mass. Pill-counter and bottle-filling machine. No. 1,422,860; July 18.
- Hirschberg, Leo, Newark, N. J. Cover for laundry tubs. No. 1,423,215; July 18.
- Hogland, Frank G., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Oil cup. No. 1,423,112; July 18.
- Hoecker, Carl D., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Liquid coating composition. No. 1,422,861; July 18.
- Hofmann, Emil G., Chicago, Ill. Toy sprinkler. No. 1,422,862; July 18.
- Holle, Alexander A., Hyde Park, London, England. Screw propeller and the like. No. 1,423,113; July 18.
- Holliday, James M., Hollister, Mo. Well bucket. No. 1,423,424; July 18.
- Holt, Charles A., Cambridge, assignor to Union Industrial Company, Boston, Mass. Spinning ring. No. 1,423,216; July 18.
- Holt, Harold E. S., Farnborough, England. Landing light or flare for attaching to aircraft. No. 1,423,326; July 18.
- Holtzclaw, Sidney, Kansas City, Kans. Cigarette case. No. 1,422,975; July 18.
- Hoof, Addison C., Chicago, Ill. Steel cushion wheel. No. 1,422,976; July 18.
- Hook, C. Howard. (See Miller, Arnold W., assignor.)
- Hoover Suction Sweeper Company, The. (See Spangler, James M., assignor.)
- Hopkins, Matthew S., Reading, Pa. Compound of lime and sulphur stabilized with an aromatic compound. No. 1,422,977; July 18.
- Horton, Theodore, Albany, N. Y. Gas meter. No. 1,423,217; July 18.
- Hough, Samuel, Atco, assignor of one-fourth to R. P. Leveck, Berlin, N. J., and one-fourth to C. J. Richter, Collingswood, N. J. Automatic filler for grease cups. No. 1,422,978; July 18.
- House, Everett J., Cleveland, Ohio. Savings and insurance account book. No. 1,423,114; July 18.
- Honseman, Christian P., York, Pa. Piston. No. 1,423,425; July 18.
- Howeth, George O., Morattico, Va. Transmission gear for automobiles. No. 1,423,426; July 18.
- Hultberg, Oscar, Seattle, Wash. Wave motor. No. 1,423,115; July 18.
- Humphreys, William J. (See Phelps, Lucius J., assignor.)
- Huntton, Charles F., Chicago, Ill. Bake beam. No. 1,422,863; July 18.
- Huntress, Harry W., Turlock, Calif. Bank-window shield. No. 1,423,327; July 18.
- Hurst, William A., Battle Ground, Ind. Belt buckle. No. 1,423,218; July 18.
- Hurter, Henry, assignor to Fulton Iron Works Company, St. Louis, Mo. Cane mill. No. 1,422,979; July 18.
- Hutcheson, Earl H., Augusta, Ga. Windshield awning. No. 1,423,116; July 18.
- Hutchinson, David M., St. Louis, Mo. Spark plug. No. 1,423,219; July 18.
- Hutchinson, Frank L., assignor to Sterling Engineering Co., Milwaukee, Wis. Valve mechanism. No. 1,422,980; July 18.
- Hutton, Edward S., Lapel, Ind. Means for controlling discharge from glass tanks. No. 1,423,220; July 18.
- Hyatt, Frank S., Brooklyn, N. Y. Tube compressor. No. 1,422,864; July 18.
- Hyatt, Frank S., Brooklyn, N. Y. Vanity box. No. 1,422,981; July 18.
- Ilex Optical Company. (See Klein, Rudolph, assignor.)
- Imperial Furniture Company. (See Applegate, E. B., and Yeomans, assignors.)
- Infantino, Benjamin P., New York, N. Y. Tile. No. 1,423,117; July 18.
- Ingersoll-Rand Company. (See Lundell, Robert A., assignor.)
- International Harvester Company. (See Johnston, E. A., and Mott, assignors.)
- International Harvester Company. (See Pearson, Charles, assignor.)
- International Motor Company. (See Hewitt, E. R., and Blake, assignors.)
- International Motor Company. (See Masury, A. E., and Josephs, assignors.)
- Interstate Smelting and Refining Co. (See Blaicher, Ernest C., assignor.)
- Invisible Process Co., The. (See Morse, Charles F., assignor.)
- Irving-Pitt Manufacturing Company. (See Fargo, C. R., and Unger, assignors.)
- Irving-Pitt Manufacturing Company. (See Pitt, F. D., and Newman, assignors.)
- Irving-Pitt Manufacturing Company. (See Pitt, Frederick D., assignor.)
- Irving-Pitt Manufacturing Company. (See Pitt, William F., assignor.)
- Isley, Robert G., Edinburg, Ind. Cultivator. No. 1,422,982; July 18.
- Jansen, Andries W., Geldrop, Netherlands. Apparatus for weaving bicycle and auto canvas. No. 1,423,427; July 18.
- Jacques, Emily U., Visalia, Calif. Amusement device. No. 1,423,428; July 18.
- Jeffers, Carl H., Kent, Ohio. Locomotive stoker. No. 1,423,221; July 18.
- Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

- Jobson, Francis S., Mentone, Ala. Burglar gun. No. 1,422,865; July 18.
- Johns, Chilion B., Edensburg, Pa. Sand-pipe heater. No. 1,423,429; July 18.
- Johnson, Alvin L., Worcester, Mass., assignor to Two Part Rim Co. Inc. Cutting over metal rims. No. 1,423,222; July 18.
- Johnson, Ernest N., Winnipeg, Manitoba, Canada. Tie plate for rails. No. 1,422,983; July 18.
- Johnson, Harold R., Cranston, R. I. Pencil. No. 1,422,984; July 18.
- Johnson, Joseph A., Blue Earth, Minn. Hay-rack lift. No. 1,423,328; July 18.
- Johnston, Edward A., Chicago, and C. W. Mott, Berwyn, Ill., assignors, by mesne assignments, to International Harvester Company. Power cultivator. No. 1,422,985; July 18.
- Jones, Arthur W. (See Oakford, Frederic, assignor.)
- Jones, Laurence E., Wichita Falls, Tex. Counter. No. 1,423,430; July 18.
- Jordan, Heinrich, Leverkusen, near Cologne, Germany, assignor, by mesne assignments, to The Grasselli Chemical Company, Cleveland, Ohio. Cotton dyes. No. 1,422,866; July 18.
- Josephs, Lyman C., Jr., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Electric-arc mechanism for searchlights. No. 1,423,497; July 18.
- Josephs, Lyman C., Jr. (See Masury, A. F., and Josephs.)
- Judy, Robert, Gifford, Ill. Watering trough. No. 1,422,986; July 18.
- Kahn Tailoring Company. (See Meissel, Henry A., assignor.)
- Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Bottle cap. No. 1,423,431; July 18.
- Kansas City Spiral Pipe Company, The. (See Colby, Frank W., assignor.)
- Karr, Henry C., assignor of one-fifth to E. Bonnellycke, Washington, D. C. Shipping package for watches. No. 1,423,329; July 18.
- Karycheff, Vladimir, and P. E. Gagarine, Paris, France. Apparatus for feeding fuel to furnaces. No. 1,422,867; July 18.
- Kasch, Frederick C., and G. F. Neff, Akron, Ohio. Mounting for draft regulators. No. 1,422,868; July 18.
- Kasley, Alexander T., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Co. Pressure generator. No. 1,423,330; July 18.
- Keith, George, and W. A. Whatmough, London, England. Means for controlling the supply of combustible mixture to internal-combustion engines. No. 1,422,987; July 18.
- Keller, Karl, assignor to J. H. White Manufacturing Company, Brooklyn, N. Y. Lighting fixture. No. 1,423,331; July 18.
- Kellogg Manufacturing Company. (See Hazard, George E., assignor.)
- Kelly-Springfield Tire Company. (See McClenathen, Robert, assignor.)
- Kendechy, Andrew, Cleveland, Ohio. Auto theft protection. No. 1,423,432; July 18.
- Kennan, Thomas, Birmingham, Ala. Sealing of cracks in the lining of blast furnaces and the like. No. 1,423,332; July 18.
- Kenny, Albert. (See Ostberg, A. J., and Kenny.)
- Ketchum, Adolph A., Chicago, Ill. Lamp. No. 1,423,433; July 18.
- Kienzl, Raymond, Cleveland, Ohio. Cutting tool. No. 1,422,988; July 18.
- Kilbourne & Jacobs Manufacturing Company, The. (See Cotton, J. H., and Burner, assignors.)
- Kimball, Robert E., assignor to The Tickometer Company, Cleveland, Ohio. Register-operating mechanism. No. 1,423,333; July 18.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,423,118; July 18.
- King, Horace W., Ann Arbor, Mich. Depth-indicating device. No. 1,423,223; July 18.
- King, James F., Worcester, Mass. Holder for electric lamps and the like. No. 1,423,119; July 18.
- Kirk, John L., Waynesboro, Pa. Pocket. No. 1,423,434; July 18.
- Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Magneto gearing. No. 1,423,334; July 18.
- Klein, Rudolph, assignor to Ilex Optical Company, Rochester, N. Y. Iris diaphragm. No. 1,423,224; July 18.
- Klinkhammer, Peter, Los Angeles, Calif. Necktie holder. No. 1,423,498; July 18.
- Knick, Glenn R., Troy, Ohio. Record turner for phonographs. No. 1,422,989; July 18.
- Knight, Horvey S., et al. (See Bair, Joseph H., assignor.)
- Knight, William E., Delaware, Ohio. Dental mirror. No. 1,423,225; July 18.
- Koerner, George W. (See Brundage, Harry, assignor.)
- Kohler, Conrad, Zurich, Switzerland. Steam boiler with forced-draft furnace. No. 1,423,335; July 18.
- Korittke, Gustav, Long Island City, N. Y. Sanitary container. No. 1,423,336; July 18.
- Koski, Matt W., Cosmopolis, Wash. Recording speedometer. No. 1,422,990; July 18.
- Kothe, Charles A., Galion, Ohio. Low-water alarm. No. 1,422,870; July 18.
- Koukos, John. (See Vafiades, G., and Koukos.)
- Kränzelin, Georg, Sindlingen, near Höchst-on-Main, and M. Corell, Höchst-on-Main, assignors to Farbwerke vorm. Meister Lucius & Brüning, Höchst-on-Main, Germany. Esters of dioxydiethyl sulphide and making same. No. 1,422,869; July 18.
- Krieger, A. Edward, et al, trustees. (See McArthur, Robert C., assignor.)
- Krüger, Paul, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Locking mechanism for the doors of self-discharging receptacles. No. 1,423,120; July 18.
- Krüger, Paul, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Dumping car. No. 1,423,121; July 18.
- Kruse, Louis W., San Jose, Calif. Coupling. No. 1,422,991; July 18.
- Kudner, Joseph, New York, N. Y. Display stand. No. 1,423,226; July 18.
- Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Electric connector. No. 1,422,992; July 18.
- Kyriazopoulos, James, Lowell, Mass. Confetti bomb. No. 1,423,122; July 18.
- Labus, Otto A., Wisconsin Rapids, Wis. Automatic water-cooling system. No. 1,423,337; July 18.
- Lackawanna Steel Company. (See Boardman, C. S. and Conkling, assignors.)
- Laise, Clemens A., Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Alloy and producing same. No. 1,423,338; July 18.
- Lambert, John W., Anderson, Ind. Tractor. No. 1,423,227; July 18.
- Lambremont, Charles O., Plaquemine, La. Combination tire and rim. No. 1,423,435; July 18.
- Landers, Frary, and Clark. (See Smith, C. F., and Curtiss, assignors.)
- Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Elastic metal stringing, and making the same. No. 1,422,993; July 18.
- Larsen, Lee, Tampico, Mexico. Combined water jet and suction apparatus and means for operating the same. No. 1,423,436; July 18.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Carriage-operating mechanism. No. 1,423,437; July 18.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Type carrier. No. 1,423,438; July 18.
- Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Sector control for tabulating machines. No. 1,423,439; July 18.
- La Societe des Etablissements E. Feuillette. (See Feuillette, Emile, assignor.)
- Leach, Philip A., East Brimfield, Mass. Forge clamp. No. 1,423,123; July 18.
- Leachman, Edward C., assignor to Pearl Pictorial (Foreign & Colonial) Limited, London, England. Electric-lamp switch. No. 1,423,228; July 18.
- Leavitt, Frank S., Melrose, and E. A. Staples, Dorchester, Mass., assignor to Atlas Devices Company, Inc. Identifying means for pneumatic-despatch-tube carriers. No. 1,423,440; July 18.
- Ledell, Carl A., Connersville, Ind. Screw gauge. No. 1,423,339; July 18.
- Ledwinka, Joseph, assignor, by mesne assignments, to Budd Wheel Company, Philadelphia, Pa. Pressed-steel wheel. No. 1,423,229; July 18.
- Lees, Thomas W., Halifax, England. Valve. No. 1,423,340; July 12.
- Leger, Oswald C., Los Angeles, Calif. Winding mechanism for spring motors. No. 1,423,230; July 18.
- Lemaitre, Lucien, Paris, France. Bolt for spring rings and manufacturing the same. No. 1,423,441; July 18.
- Le Merle, Francis G., M. J. Ullman, and J. E. Barry, Washington, D. C. Gasoline electric automobile. No. 1,423,124; July 18.
- Lemons, Joseph F., Adams, assignor of one-fourth to W. B. Winters, Adams, and one-fourth to J. Hancock, Springfield, Tenn. Dust gun. No. 1,423,125; July 18.
- Lenher, Victor, Madison, Wis., and F. M. Dorsey, Cleveland, Ohio; said Dorsey assignor of his right to General Electric Company. Purifying carbon. No. 1,423,231; July 18.
- Levick, Reuben P., et al. (See Hough, Samuel, assignor.)
- Levin, Nils D., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Electric controller. No. 1,423,126; July 18.
- Levy, Edward, London, England. Scissors. No. 1,423,127; July 18.
- Lewis, W. Cary. (See Gellin, Charles A., assignor.)
- Liedtke, Hugo F., assignor to Pangborn Corporation, Hagerstown, Md. Sand-blast apparatus. No. 1,423,128; July 18.
- Lieser, Leo F., Sidney, Oowa. Attachment for carburetors. No. 1,422,871; July 18.
- Ligon, Arthur L., Killeen, Tex. Demountable headstock for lathes. No. 1,422,994; July 18.
- Link, Vincent, Detroit, Mich., assignor to The Studebaker Corporation. Unit assemblage of motor adjuncts. No. 1,422,995; July 18.
- Linotype and Machinery Limited. (See Stern, Carl L., assignor.)
- Lippincott, George A., Philadelphia, Pa. Striker plate for golf clubs. No. 1,423,341; July 18.

- Lloyd, Edwin C. J., Jeannette, Pa. Box and attachment therefor. No. 1,423,442; July 18.
- Lobel, Herman, assignor to Compression Tube & Tire Co., Los Angeles, Calif. Tire. No. 1,423,232; July 18.
- Locomotive Stoker Company. (See Osborne, Lonnie E., assignor.)
- Loew, Charles H., and J. R. Gruetter, assignors to The Loew Manufacturing Company, Cleveland, Ohio. Label separator and remover for bottle washing apparatus. No. 1,423,342; July 18.
- Loew Manufacturing Company, The. (See Loew, C. H., and Gruetter, assignors.)
- Loman, John, Bristol, Conn. Watch-chain fastener. No. 1,422,872; July 18.
- Long, Stevens P., Birmingham, Ala. Resilient tire. No. 1,422,996; July 18.
- Loomis, Rockwell A., Guatemala, Guatemala. Carriage-shifting mechanism for typewriters. No. 1,423,443; July 18.
- Ludlum, James G., Bridgeport, Conn. Display roll for flat metal tableware. No. 1,423,483; July 18.
- Lundell, Robert A., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston and connecting rod construction. No. 1,423,343; July 18.
- Lundell, Robert A., New York, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Piston and connecting rod construction. No. 1,423,344; July 18.
- Lundsgaard, Christen J. S., Vejlen, and K. T. Herbst, Brand, Denmark. Explosive material. No. 1,423,233; July 18.
- Lynch, John T., Rochester, N. Y. Truck. No. 1,423,234; July 18.
- Lynch, Warren O., Berkeley, Calif. Stiffener for folding books. No. 1,423,129; July 18.
- McArthur, Robert C., et al., trustees. (See McArthur, Robert C., assignor.)
- McArthur, Robert C., Sand Springs, Okla., assignor to W. O. Fredrikson, A. E. Krieger, and R. C. McArthur, trustees, Salamanca, N. Y. Brake rod adjuster. No. 1,423,235; July 18.
- McCaa, David G., Palo Alto, Calif., assignor of one-half to Cornelius D. Ehret, Philadelphia, Pa. Signaling method and apparatus. No. 1,423,345; July 18.
- McCarty, Homer B., assignor to O-K Elevator Safety Lock Company, Ogden, Utah. Door lock. No. 1,423,484; July 18.
- McClain, John R., assignor of one-fifth to R. Meier, Brooklyn, N. Y. Melting pot. No. 1,423,501; July 18.
- McClenathan, Robert, assignor to Kelly-Springfield Tire Company, Akron, Ohio. Molding machine. No. 1,423,349; July 18.
- McClure, Silas. (See Palmer, Stanley W., assignor.)
- McCombs, Charles C., Stephenville, Tex. Check protector. No. 1,423,236; July 18.
- McCoy, William C., Wilkinsburg, Pa. Ore concentrator. No. 1,423,130; July 18.
- McDonald, William B., Lawrence, Kans. Adjustable hinge. No. 1,423,350; July 18.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fire box. No. 1,423,346; July 18.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fire box. No. 1,423,347; July 18.
- McGahan, Frederick L., deceased, Los Angeles, Calif.; V. K. Walker, administrator, assignor to The Purposed Mind Development Security Association of the World. Fan. No. 1,423,348; July 18.
- McGirr, Theodore G., Springfield, Mass. Machine for applying hoods to articles. No. 1,423,237; July 18.
- McGregor, Alexander G., Warren, Ariz. Apparatus for handling comminuted material. No. 1,422,997; July 18.
- McKibbin, Joe S., Los Angeles, Calif. Wrench. No. 1,423,499; July 18.
- McLellan, William, et al. (See Michie, A. C., and Weeks, assignors.)
- McNally, John F., and R. A. Bradley, Emporia, Kans. Clutch pulley. No. 1,422,873; July 18.
- McNamara, Charles D., Fair Play, Colo. Aeroplane. No. 1,423,131; July 18.
- McNaughton, John, New York, N. Y. Mop. No. 1,423,444; July 18.
- McNiff, John T., assignor to R. F. McNiff, Waterbury, Conn. Business hours placard. No. 1,423,485; July 18.
- McNiff, Raymond F. (See McNiff, John T., assignor.)
- McRea, Thomas K. (See Allen, W. R., and McRea.)
- Mack, Herman, Hamm, Germany. Extracting coal in mines. No. 1,422,874; July 18.
- Madigan, Thomas J., Brooklyn, assignor of one-fourth to J. O. Schwank, New York, N. Y. Sprinkler head. No. 1,422,875; July 18.
- Magaldi, E., Naples, Italy. Shoe. No. 1,423,445; July 18.
- Magrath, Henry J., London, England. Treatment of water for softening, sterilizing, and like purposes. No. 1,423,132; July 18.
- Maltby, Frank D., Battle Creek, Mich. Priming and decarbonizing device for internal-combustion engines. No. 1,422,998; July 18.
- Manning, Bowman & Company. (See Warner, Maurice L., assignor.)
- Marlin Rockwell Corporation. (See Rockwell, Albert F., assignor.)
- Martin, Frank H., Carterville, Ill. Automatic railway-switch throw and lock. No. 1,423,351; July 18.
- Mason, Max, New London, Conn., assignor to Submarine Signal Company, Portland, Me. Determination of wave-energy direction. No. 1,422,876; July 18.
- Masury, Alfred F., New York, N. Y., and L. C. Josephs, Jr., Allentown, Pa., assignors to International Motor Company, New York, N. Y. Leading truck for railway motor cars. No. 1,423,238; July 18.
- Mathers, Alexander S., Los Angeles, Calif. Tie device. No. 1,423,133; July 18.
- Matheus, Karl, Chicago, Ill. Belt and the like. No. 1,422,999; July 18.
- Mattison, Richard V., Ambler, Pa., assignor to Asbestos, Shingle, Slate & Sheathing Company, Asbestos-cement product and forming the same. No. 1,423,000; July 18.
- Maxfield, Joseph P., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustical aid for deaf persons. No. 1,422,877; July 18.
- Maxwell, Elmer T., Wheeling, W. Va. Paper dish. No. 1,423,001; July 18.
- Meconi, Alberto, Munich, Germany, assignor to T. Meconi, Cumberland, Md. Window cleaner. No. 1,423,239; July 18.
- Meconi, Tacope. (See Meconi, Alberto, assignor.)
- Meier, Richard. (See McClain, John B., assignor.)
- Meisel, Charles A., Dorchester, assignor to Meisel Press Manufacturing Company, Boston, Mass. Securing means for printing plates. No. 1,423,486; July 18.
- Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)
- Meissel, Henry A., assignor to Kahn Tailoring Company, Indianapolis, Ind. Spool holder for sewing machines. No. 1,423,487; July 18.
- Melidona, Antonio, Niagara Falls, N. Y. Automobile frame. No. 1,423,240; July 18.
- Mercier, Henri, Paris, France. Stabilizing means for suspended vehicles. No. 1,423,002; July 18.
- Merz, Charles H., et al. (See Michie, A. C., and Weeks, assignors.)
- Metz, Hermann, A. (See Schirmacher, Karl, assignor.)
- Metzger, Floyd J., assignor to Air Reduction Company, New York, N. Y. Retort. No. 1,422,878; July 18.
- Meurer Steel Barrel Company. (See Reynolds, Henry S., assignor.) (Reissue.)
- Meyer, Siegfried, New York, N. Y. Ash tray and receptacle. No. 1,422,879; July 18.
- Michaelsen, William H., Mount Vernon, N. Y. Mechanical connector. No. 1,422,880; July 18.
- Michie, Arthur C., Newcastle-upon-Tyne, and E. G. Weeks, Northumberland, assignors to C. H. Merz and W. McLellan, Westminster, London, England. Low-temperature distillation. No. 1,423,134; July 18.
- Milholen, Charles F., Kannapolis, N. C. Ash pan. No. 1,423,352; July 18.
- Miller, Arnold W., assignor to C. H. Hook, Pittsburgh, Pa. Relief valve. No. 1,423,135; July 18.
- Miller, Dorr. (See Gruenberg, W. A., and Miller.)
- Miller Transmission Company, The. (See Gruenberg, W. A., and Miller, assignors.)
- Minnick, Warren R., Reading, Pa. Display panel. No. 1,423,003; July 18.
- Minshall, Robert, Waterloo, Wis., assignor of one-half to P. B. Goddard, Wilmette, Ill. Stable appliance. No. 1,423,241; July 18.
- Minton, Ogden, Greenwich, Conn. Apparatus for maintaining and removing liquid seal for vacuum apparatus. No. 1,423,242; July 18.
- Mitchell, William F., Clifton, N. J., assignor of one-half to F. R. Allen, Passaic, N. J. Grease cellar. No. 1,423,502; July 18.
- Moffatt, James R., assignor to Union Special Machine Company, Chicago, Ill. Sewing-machine frame. No. 1,423,243; July 18.
- Moody, John R., Los Angeles, Calif. Hinge. No. 1,423,004; July 18.
- Moore, Edward Y., Cleveland, Ohio. Chain shackle and making the same. No. 1,423,244; July 18.
- Moore, John R., Chicago, Ill. Tool holder. No. 1,423,245; July 18.
- Moore, John T., Atlanta, Ga. Railway switch. No. 1,423,005; July 18.
- Morgan, Harry B., St. Louis, Mo. Shock absorber. No. 1,423,006; July 18.
- Morner, Dora, Stevens Point, Wis. Sanitary belt. No. 1,423,353; July 18.
- Morse, Charles F., assignor to The Invisible Process Co., Cleveland, Ohio. Invisible ink. No. 1,423,246; July 18.
- Morton, Samuel S., Harrisburg, Pa. Intermittent-grip device. No. 1,423,007; July 18.
- Morton, Samuel S., Harrisburg, Pa. Transmission mechanism. No. 1,423,008; July 18.
- Mothersill, Thomas B. (See Grikscheit, William, assignor.)
- Mott, Carl W. (See Johnston, E. A., and Mott.)
- Muckenbirt, Charles H., Detroit, Mich. Mechanical batter. No. 1,423,009; July 18.
- Mueller, L. J., Furnace Company. (See Buller, Charles M., assignor.)
- Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Co. Drying kiln. No. 1,423,136; July 18.
- Mumford, John, Chillicothe, Ohio. Wrench. No. 1,423,247; July 18.
- Murphy, Walter P. (See Bonsall, Charles D., assignor.)

- Murphy, Walter P., New York, N. Y. Corrugated-sheet-metal car end. No. 1,422,881; July 18.
- Murray, Milton, Williams Wharf, Va. Make-and-break ignition device. No. 1,423,137; July 18.
- National Airless Tire Company. (See Braden, Charles H., assignor.)
- National Biscuit Company. (See Beers, F., and Powell, assignors.)
- National Brake & Electric Company. (See Aikman, Burton S., assignor.)
- Needy, William H. H., Hagerstown, Md. Balance staff for timepieces. No. 1,423,446; July 18.
- Neff, George F. (See Kasch, F. C., and Neff.)
- Neviczky, Eleanor H., McKeesport, Pa. Safety gas valve. No. 1,423,010; July 18.
- New York Mackintosh Clothing Co. (See Geis, Leopold H., assignor.)
- Newman, Charles L., Berkeley, Calif. Parachute. No. 1,423,248; July 18.
- Newman, George W. (See Pitt, F. D., and Newman.)
- Nicholas Power Company. (See Power, Nicholas, assignor.)
- Nichols, George T., assignor of one-tenth to J. P. Walling, Gainesville, Tex. Automobile wheel rim. No. 1,423,354; July 18.
- Nichols, Harold W., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Radio transmission. No. 1,422,882; July 18.
- Niell, Magnus, Stockholm, Sweden. Photographic-roll-film spool. No. 1,423,355; July 18.
- Niles-Bement-Pond Company. (See Sears, Willard T., assignor.)
- Nipper, William R., Grants Pass, Oreg. Fruit-jar cover. No. 1,422,883; July 18.
- Noble, Eldridge H., deceased, Waukegan, Ill., W. J. Smith, administrator. Oil can. No. 1,423,503; July 18.
- Noé, Samuel B., Ocean Grove, N. J. Maximum-pressure inflating valve and gauge. No. 1,423,447; July 18.
- Northwest Blower Kilm Co. (See Mueller, Moritz L., assignor.)
- Norton, George F., and E. A. Ende, Mayville, Wis. Corn-snapping mechanism for silo fillers. No. 1,423,138; July 18.
- O-K Elevator Safety Lock Company. (See McCarty, Homer B., assignor.)
- Oakford, Frederic, Philadelphia, assignor of one-half to A. W. Jones, Germantown, Philadelphia, Pa. Humidor. No. 1,423,356; July 18.
- O'Brien, James H., Manchester, N. H. Fire shutter for moving-picture machines. No. 1,423,139; July 18.
- O'Connor, James A., Bridgeport, Conn. Fountain pen. No. 1,423,448; July 18.
- Olesberg, Oluf E., Bawlf, Alberta, Canada. Brush and chopping ax. No. 1,423,140; July 18.
- Olivetti, Camillo, Ivrea, Italy. Magneto electric machine. No. 1,423,141; July 18.
- O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous-plant-decorating machine. No. 1,423,357; July 18.
- Opheim, Torjils S., Everett, Wash. Automobile direction signal. No. 1,423,249; July 18.
- Osborne, Lonnie E., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Lubricator. No. 1,423,011; July 18.
- Oshkosh, Roy, assignor of one-fourth to S. W. Randolph, Manitowish, Wis. Sectional radiator. No. 1,423,449; July 18.
- Ostberg, Anders J., and A. Kenny, Richmond, near Melbourne, Victoria, assignor to The Standard Rubber Works Proprietary, Limited, Melbourne, Victoria, Australia. Manufacture of sponge rubber. No. 1,422,884; July 18.
- Otterstedt, Hans C., Svalof, Sweden. Production of oat groats and the like. No. 1,423,450; July 18.
- Ottinger, Leon, New York, N. Y. Fastening device. (Reissue.) No. 15,412; July 18.
- Ottolenghi-Wedekind, Herta, Genova, Italy. Manufacturing design cards. No. 1,422,885; July 18.
- Owens, Percy R., Mount Kisco, N. Y. Temperature-controlling system. No. 1,422,886; July 18.
- Owens, Ralph H., Lincoln, Nebr. Wrench. No. 1,423,142; July 18.
- Pagé, Victor W., New York, N. Y. Spring suspension. No. 1,423,451; July 18.
- Palmer, Stanley W., assignor to S. McClure, Beaver Dam, Wis. Hinge for stoves and ranges. No. 1,423,012; July 18.
- Pangborn Corporation. (See Liedtke, Hugo F., assignor.)
- Paragon Can & Cap Company Inc. (See Anderson, Gustave F., assignor.)
- Parkinson, Harold, Wilmington, Del. String holding and cutting adjustment for rivet-setting machines. No. 1,423,250; July 18.
- Patterson, Marcus, Brooklyn, N. Y. Strip for floor coverings and the like. No. 1,423,143; July 18.
- Paul, Raymond W., Pike Road, N. C. Back band. No. 1,423,144; July 18.
- Payne, William F., Stratford, Ontario, Canada. Furnace. No. 1,423,145; July 18.
- Pearl Pictorial (Foreign & Colonial) Limited. (See Leachman, Edward C., assignor.)
- Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Automatic mower pitman. No. 1,423,013; July 18.
- Peckham, John W., Parkston, S. Dak. Stereotype-casting frame. No. 1,423,146; July 18.
- Pedersen, John D., Jackson, Wyo. Firearm. No. 1,423,358; July 18.
- Pembor, Thomas J. (See Watt, Frederick, assignor.)
- Penn-Greg Mfg. Co. (See Pennig, Bernard T., assignor.)
- Pennig, Bernard T., assignor to Penn-Greg Mfg. Co., St. Paul, Minn. Mail box in house walls. No. 1,423,351; July 18.
- Perry, George R., Washington, D. C. Key holder. No. 1,423,147; July 18.
- Perry, Raymond A., Oakland, Calif. Dirigible headlight for vehicles. No. 1,423,148; July 18.
- Peruzzi, Mario, Wilkes-Barre, Pa. Nut-salting machine. No. 1,423,014; July 18.
- Pfister, Charles C., Pawnee Rock, Kans. Extension feeder and thrasher. No. 1,423,149; July 18.
- Phelps, Lucius J., Los Angeles, assignor of one-half to W. J. Humphreys, San Gabriel, Calif. Homogenizer. No. 1,423,488; July 18.
- Phillips, Raymond H., Trenton, N. J. Mat. No. 1,422,887; July 18.
- Pitt, Frederick D., and G. W. Newman, assignors to Irving-Pitt Manufacturing Company, Kansas City, Mo. Temporary binder. No. 1,423,015; July 18.
- Pitt, Frederick D., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Book-cover-attaching means. No. 1,423,017; July 18.
- Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Binder. No. 1,423,016; July 18.
- Pitt, William P., assignor to Irving-Pitt Manufacturing Company, Kansas City, Mo. Cover-attaching means for books. No. 1,423,018; July 18.
- Plaisted, Harold M. (See Williams, Milton F., assignor.)
- Platt, James R., Hartford, Ark. Mechanic's rule and pencil holder. No. 1,423,359; July 18.
- Pogue, Webster V., Mount Vernon, N. Y. Compass scale. No. 1,423,019; July 18.
- Pokorny, James T., Cedar Bayou, assignor of one-half to A. T. Eddington, Port Arthur, Tex. Molding machine. No. 1,423,020; July 18.
- Pole and Tube Works, Inc., The. (See Schwarz, G. H., and Vintscher, assignors.)
- Pomeroy, Ralph E. H., Canton, Ohio. Treating pulverized fuel. No. 1,423,150; July 18.
- Popper, Isaac C., assignor to Basic Products Corporation, New York, N. Y. Collapsible field stove. No. 1,423,252; July 18.
- Post, Truman W., New York, N. Y., assignor to Willys Corporation, Toledo, Ohio. Headlight. No. 1,423,253; July 18.
- Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
- Powell, Earl J. (See Griswold, R. H., and Powell.)
- Powell, Howard L. (See Beers, F., and Powell.)
- Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Motion-picture machine. No. 1,423,452; July 18.
- Power Specialty Company. (See Foster, Ernest H., assignor.)
- Powers Accounting Machine Company. (See Lasker, William W., assignor.)
- Pratt & Whitney Company. (See Hill, Reuben, assignor.)
- Preston, Carleton B., Providence, R. I. Attachment for phonographs. No. 1,423,360; July 18.
- Prestwich, Ernest. (See Prestwich, Wright and E.)
- Prestwich, Wright and E., Lawrence, Mass. Removable handle mechanism for brushes or brooms. No. 1,423,151; July 18.
- Proctor & Schwartz, Incorporated. (See Ayres, E. B., and Rhoads, assignors.)
- Puplett, Thomas J., Manchester, England. Internal-combustion turbine. No. 1,423,453; July 18.
- Purposed Mind Development Security Association of the World, The. (See McGahan, Frederick L., assignor.)
- Quaker Oats Company, The. (See Ferguson, John L., assignor.)
- Raible, John R., assignor to The Greif Brothers Cooperage Company, Cleveland, Ohio. Barrel. No. 1,423,254; July 18.
- Randolph, Samuel W. (See Oshkosh, Roy, assignor.)
- Rath, Joseph J., assignor to The Available Truck Company, Chicago, Ill. Leaf-spring connection. No. 1,423,255; July 18.
- Reeves, Leslie C., Pitman, and M. A. Webb, Jr., Camden, N. J. Exercising device. No. 1,422,888; July 18.
- Refrigerating Specialties Company. (See Hanson, Charles C., assignor.)
- Reiser, Reynold J., Kenosha, Wis. Transmission mechanism. No. 1,423,454; July 18.
- Remington Typewriter Company. (See de Clamecy, Philippe, assignor.)
- Remus, Stefano, Genoa, Italy. Sparking plug for internal-combustion engines. No. 1,423,152; July 18.
- Reynolds, Henry S., Brooklyn, assignor to Meurer Steel Barrel Company, Inc., New York, N. Y. Sput for metallic receptacles. (Reissue.) No. 15,413; July 18.
- Reynolds, Morley P., assignor to The W. S. Tyler Company, Cleveland, Ohio. Screening apparatus. No. 1,423,021; July 18.
- Rhoads, Thomas H. (See Ayres, E. B., and Rhoads.)
- Rice, Arthur L., deceased, Adams, N. Y.; C. S. Rice, executrix. Water paint. No. 1,423,256; July 18.

- Rice, Caroline S., executrix. (See Rice, Arthur L.)
 Richardson, Ernest, College Hill Borough, Pa. Thermometer. No. 1,423,257; July 18.
 Richardson, George R., Denbigh, N. Dak. Running gear. No. 1,423,153; July 18.
 Richter, Charles J., et al. (See Hough, Samuel, assignor.)
 Riley, Austin A., assignor of two-thirds to Central States Bridge Company, Indianapolis, Ind. Oil burner. No. 1,423,022; July 18.
 Rivers, Willie L., and G. B. Dixon, Dallas, Tex. Hanger. No. 1,423,455; July 18.
 Roberts, Eugene D., Tacoma, Wash. Clutch-operating mechanism. No. 1,423,023; July 18.
 Roberts, George E., assignor to The Spencer Metal Products Company, Spencer, Ohio. Toy piano. No. 1,423,024; July 18.
 Roberts, Nash & Co. (See Giovagnoli, John, assignor.)
 Roberts, Park D. (See Roberts, Webster M. and P. D.)
 Roberts, Thomas. (See Austin, J. D., and Roberts.)
 Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for baking pastry products. No. 1,423,258; July 18.
 Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for and method of making pastry cones. No. 1,423,259; July 18.
 Roberts, Webster M. and P. D., St. Joseph, Mo. Machine for and method of making pastry cones. No. 1,423,260; July 18.
 Robichaux, Sosthene. (See Salter, D. M., and Robichaux.)
 Robins Conveying Belt Co. (See Uhlarik, Julius C., assignor.)
 Rockbestos Products Corporation. (See Heany, John A., assignor.)
 Rockwell, Albert F., Bristol, Conn., assignor to Marlin-Rockwell Corporation, New York, N. Y. Device for producing extruded sheet metal. No. 1,423,361; July 18.
 Rockwell, Clifton C., Tucson, Ariz. Animal trap. No. 1,423,261; July 18.
 Rodgers, Claude M., and A. W. Wenger, Warsaw, Ind. Controller for fish lures. No. 1,423,025; July 18.
 Rogers, Frank. (See Burke, P. W., and Breeding, assignors.)
 Rollins, William T., assignor to R. Codman, Jr., Boston, Mass. Antiskid attachment for elastic tires. No. 1,423,026; July 18.
 Roope, Rufus P., et al. (See Brown, Edward W., assignor.)
 Rosak, Karl, Berlin, Germany. Manufacturing counter pieces to gauges, formed bars, profile pieces, and the like. No. 1,423,154; July 18.
 Rose, Connie C. (See Cox, O. M., and Rose.)
 Rose, Joseph E., Portland, Ore. Artificial tooth. No. 1,423,027; July 18.
 Roth, Arpad, New York, N. Y. Foot support. No. 1,423,456; July 18.
 Roth, Ernest, Philadelphia, Pa. Driving means for tanning drums. No. 1,423,028; July 18.
 Rowden, George V., Hove, England. Daylight developing tank for photographic roll films. No. 1,423,457; July 18.
 Ruff, William, New York, N. Y. Gaseous-fuel burner. No. 1,423,155; July 18.
 Russell, Henry M., Wheeling, W. Va. Changing-view display apparatus. No. 1,423,262; July 18.
 Russell, Joseph C., Pittsburgh, Pa. Card index. No. 1,423,029; July 18.
 Russell, Joseph C., Pittsburgh, Pa. Card index. No. 1,423,030; July 18.
 Ryding, Herbert C., and A. W. Allen, Birmingham, Ala. Manufacture of open-hearth steel. No. 1,423,031; July 18.
 Salter, Dougle M., and S. Robichaux, Saratoga, Tex. Cable clamp. No. 1,423,263; July 18.
 Savary, André, Paris, France. Change-speed gear. No. 1,423,458; July 18.
 Scheele, Walter T., Hackensack, N. J., assignor to Government of the United States, represented by the Secretary of the Navy. Pyrotechnic composition. No. 1,423,264; July 18.
 Schirmacher, Karl, Hochst-on-the-Main, Germany, assignor to H. A. Metz, New York, N. Y. Manufacture of 9,10-dihaloanthracene- β -monosulphonic acid. No. 1,423,889; July 18.
 Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Geared turbine. No. 1,423,459; July 18.
 Schmitt, Eugene, Cincinnati, Ohio. Outgauge. No. 1,423,156; July 18.
 Schmitt, John G. (See Behn, A., and Schmitt.)
 Schmitt, Ludwig, Chicago, Ill. Spring motor. No. 1,423,032; July 18.
 Schmitt-Marcel, William, Florence, Italy. Finger-training device. No. 1,423,033; July 18.
 Schneider, Charlie F., Enid, Okla. Cattle poke. No. 1,423,362; July 18.
 Scholl, Henry L., Spokane, Wash. Window-sash holder. No. 1,423,034; July 18.
 Schreiber, Louis, Holland, Mich. Spring seat. No. 1,423,460; July 18.
 Schreyer, Ernest G., Chicago, Ill. Toy. No. 1,423,035; July 18.
 Schulz, M., Company. (See Gustafson, Adolph P., assignor.)
 Schwank, James O. (See Madigan, Thomas J., assignor.)
 Schwarz, Gotthilf H., Newark, and M. Vintschger, Ridge-wood, assignors to The Pole and Tube Works, Inc., Newark, N. J. Container with removable locking cover. No. 1,423,157; July 18.
 Schwitzer, Louis, assignor to Automotive Parts Company, Indianapolis, Ind. Bearing construction for fans. No. 1,423,265; July 18.
 Scruby, Basil, and G. K. Harkness, Harlow, England. Mold for use in building walls, making blocks, slabs, tiles or briquettes. No. 1,423,461; July 18.
 Sears, Roebuck and Company. (See Bohmker, John C., assignor.)
 Sears, Willard T., Montclair, N. J., assignor to Niles-Bement-Pond Company, New York, N. Y. Shaping machine. No. 1,423,266; July 18.
 Severance, Malvern W., Cleveland, Ohio. Cuff button. No. 1,423,267; July 18.
 Severson, Samuel, Valders, Wis. Hair-cutting appliance. No. 1,423,363; July 18.
 Sevier, Charles D., and F. P. Eckroat, Fort Collins, Colo. Valve tool. No. 1,422,890; July 18.
 Sewell, Daniel, Edmonton, Alberta, Canada. Auxiliary gasoline tank for automobiles. No. 1,423,158; July 18.
 Shannon, Howard H., Denver, Colo. Tire protector. No. 1,423,036; July 18.
 Sharp, Chester L., deceased, Lancaster, Ohio, G. Sharp administratrix. Gas burner for furnaces. No. 1,422,891; July 18.
 Sharp, Georgia, administratrix. (See Sharp, Chester L.)
 Sharpe, Joseph, Hampton, Va. Aerial mounting for cameras. No. 1,423,364; July 18.
 Sharpnack, James A., Rices Landing, Pa. Facing tool. No. 1,423,462; July 18.
 Shatz, Barnett, Buenos Aires, Argentina. Device for graduating lines on ruled paper. No. 1,422,892; July 18.
 Shaw, A. B., Medford, assignor to Shaw Specialty Co. Inc., West Medford, Mass. Stopper for hot-water bottles. No. 1,423,463; July 18.
 Shaw, A. B., Medford, assignor to Shaw Specialty Co. Inc., West Medford, Mass. Stopper for hot-water bottles. No. 1,423,464; July 18.
 Shaw Specialty Co. Inc. (See Shaw, A. B., assignor.)
 Sheline, Orville O., Chicago, Ill. Receptacle holder. No. 1,423,465; July 18.
 Shepherdson, William, New Liskeard, Ontario, Canada. Wood saw. No. 1,423,159; July 18.
 Showalter, William E., Huntingburg, Ind. Wheelbarrow. No. 1,422,893; July 18.
 Sieben, Henry, Kansas City, Mo. Gearing. No. 1,423,037; July 18.
 Sieber, Gottwalt, Plauen, Saxony. Thread-changing device in embroidery machines. No. 1,423,160; July 18.
 Simplex Paper Accessories Co. (See Alexay, Adalbert, assignor.)
 Simpson, John T., Newark, N. J. Building construction. No. 1,423,161; July 18.
 Simpson, John T., Newark, N. J. Tightener. No. 1,423,162; July 18.
 Simpson, John T., Newark, N. J. Deformed reinforcing bar. No. 1,423,163; July 18.
 Sims, Vera I., Sioux City, Iowa. Nursing bottle. No. 1,423,038; July 18.
 Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
 Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)
 Skonnord, Olaf B., Valley City, N. Dak. Tractor hitch. No. 1,423,164; July 18.
 Skubinski, Aleksander, Los Angeles, Calif. Animal trap. No. 1,422,894; July 18.
 Slick, Edwin E., Pittsburgh, Pa. Machine for rolling. No. 1,423,268; July 18.
 Slothower, Aaron, Warren, Ore. Pruning saw. No. 1,423,506; July 18.
 Smith, Carl A., Defiance, Ohio. Road-building apparatus. No. 1,422,895; July 18.
 Smith, Charles F., and G. E. Curtiss, assignors to Landers, Frary & Clark, New Britain, Conn. Electric radiator. No. 1,423,039; July 18.
 Smith, David C., Toledo, Ohio. Automobile lock. No. 1,423,269; July 18.
 Smith, Edward D., Erie, Pa. Bank book and savings bank combined. No. 1,423,270; July 18.
 Smith, Frank W., assignor, by mesne assignments, to Unit Motor Company, Kansas City, Mo. Internal-combustion multimotor. No. 1,423,365; July 18.
 Smith, Roy E., Iuka, Ill. Grain door. No. 1,423,040; July 18.
 Smith, William J., administrator. (See Noble, Eldridge H.)
 Snook, Henry C., Independence, Kans. Combined ironing board, stepladder, and house truck. No. 1,423,366; July 18.
 Snyder, Charles A., Philadelphia, Pa. Composition for the treatment of artificial silk. No. 1,423,041; July 18.
 Snyder, John E., Philadelphia, Pa., assignor to Westinghouse Electric and Manufacturing Company. Interlocking blade shroud. No. 1,423,466; July 18.
 Sociedad Hidro-Metalurgica. (See Bardt, Hans, assignor.)
 Societe Chimique de la Grande Parissise. (See Haas, Louis, assignor.)
 Society of Chemical Industry in Basle. (See Gams, A., and Wybert, assignors.)

- Soreng, Edgar M., assignor to Briggs & Stratton Company, Milwaukee, Wis. Heating coil for carburetors. No. 1,422,896; July 18.
- Souders, Herbert V., Wilmington, and J. M. Frost, Long Beach, Calif. Foot accelerator. No. 1,423,489; July 18.
- Southwick, William S., Clinton, Mass., assignor, by mesne assignments, to Wickwire Spencer Steel Corporation. Automatic filling-replenishing loom. No. 1,422,897; July 18.
- Spangler, James M., deceased, Canton, assignor to The Hoover Suction Sweeper Company, Berlin, Ohio. Suction carpet sweeper. (Reissue.) No. 15,414; July 18.
- Spencer, Charles H., assignor to H. S. Dulaney, Baltimore, Md. Piano player. No. 1,423,271; July 18.
- Spencer Metal Products Company, The. (See Roberts, George E., assignor.)
- Spitzfaden, Bernhard, Brooklyn, N. Y. Self-closing and controlling means for doors. No. 1,423,467; July 18.
- Stadelman, Joseph G., Chicago, Ill. Wooden building. No. 1,423,468; July 18.
- Standard Rubber Works Proprietary Limited, The. (See Ostberg, A. J., and Kenny.)
- Staples, Ernest A. (See Leavitt, F. S., and Staples.)
- Steffens, John A., Baltimore, Md., assignor to U. S. Industrial Alcohol Co. Recovering glycerin. No. 1,423,042; July 18.
- Steinheiser, Frank H., Spokane, Wash. Broom holder. No. 1,423,043; July 18.
- Stemco Engineering Company, The. (See Collison, J. G., Wright, Filbert, and Frank, assignors.)
- Stephens, Benjamin G. C., Auckland, New Zealand. Automatic switch for electric heating appliances. No. 1,422,898; July 18.
- Sterling Engineering Company. (See Hutchinson, Frank L., assignor.)
- Stern, Carl L., assignor to Linotype and Machinery Limited, London, England. Rotary lithographic printing machine for direct or offset printing. No. 1,423,165; July 18.
- Studel, Erich, Chicago, Ill. Foldable carton. No. 1,423,272; July 18.
- Studel, Erich W. O., Chicago, Ill. Chain link. No. 1,423,273; July 18.
- Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,423,274; July 18.
- Storle, Ole O., Tacoma, Wash. Automatic stop for gramophones. No. 1,423,044; July 18.
- Stouch, Daniel L., York, Pa. Tire. No. 1,422,899; July 18.
- Strachan, James K., Windsor, Ontario, Canada. Grain-grinding machine. No. 1,423,275; July 18.
- Straszky, Emil, assignor to The Dover Manufacturing Company, Dover, Ohio. Electrical connector. No. 1,423,045; July 18.
- Straubel, Louis A., Green Bay, Wis. Paper-folding machine. No. 1,423,276; July 18.
- Streit, Peter L., Grand View, N. Y. Combination handle and crank. No. 1,423,469; July 18.
- Strong, Arthur P., Chicago, Ill., assignor to Green Engineering Company, East Chicago, Ind. Ash hopper. No. 1,422,900; July 18.
- Stuart, Charles A. (See Stuart, George E. and C. A.)
- Stuart, George E. and C. A., Oregon City, Ore. Pneumatic tire. No. 1,423,277; July 18.
- Studebaker Corporation. (See Link, Vincent, assignor.)
- Stukenborg, Louis C., Memphis, Tenn. Tire chain. No. 1,423,470; July 18.
- Sturtevant, B. F., Company. (See Clamecy, Philippe, assignor.)
- Submarine Signal Company. (See Mason, Max, assignor.)
- Summers, Mark L., Hammon, Calif., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J. Pin stop for dredge buckets. No. 1,423,367; July 18.
- Summit Thread Company. (See Weaver, Lucius E., assignor.)
- Swanson, Sherwood W., Jacksonville, Fla. Demountable rim. No. 1,423,471; July 18.
- Taber, Ezra W., Chicago, Ill. Farm tractor. No. 1,423,046; July 18.
- Tallerday, Howard G., San Francisco, Calif., assignor to Western Pipe and Steel Company of California. Ice can. No. 1,423,278; July 18.
- Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Company. Transverse axis aileron. No. 1,423,166; July 18.
- Tarbox, John P., Garden City, N. Y., assignor to Tarbox Safety Aircraft Company. Vertical axis aileron. No. 1,423,167; July 18.
- Tarbox Safety Aircraft Company. (See Tarbox, John P., assignor.)
- Taylor, Hubert W., Frederick, Okla. Cotton picker. No. 1,423,472; July 18.
- Taylor Instrument Companies. (See Worner, George R., assignor.)
- Taylor, Lewis H., et al. (See Bair, Joseph H., assignor.)
- Taylor, Lucinda. (See Taylor, Roland B. and L.)
- Taylor, Roland B. and L., Melville, Saskatchewan, Canada. Folder for prescription blanks. No. 1,423,473; July 18.
- Taylor-Wharton Iron and Steel Company. (See Summers, Mark L., assignor.)
- Taylor, William. (See Frank, William, assignor.)
- Techel, Hans, Kiel, assignor to Fried. Krupp Aktien-gesellschaft Germanlawerft, Kiel-Gaarden, Germany. Telescope device for determining the angle of allowance in front on attacking a moving target. No. 1,423,168; July 18.
- Ter Kuile, Harry, Enschede, Netherlands. Replenishing mechanism for multicolor looms. No. 1,423,279; July 18.
- Terry, George O., assignor to Economy Shoe Machine Co., Minneapolis, Minn. Cutting device for leather soles. No. 1,422,901; July 18.
- Thayer, Russell, Philadelphia, Pa. Centrifugal separator or amalgamator. No. 1,423,169; July 18.
- Theodore, George. (See Dorcheff, George.)
- Thomas, Frank B., Wilkensburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Starting and unloading device. No. 1,422,902; July 18.
- Thompson, Elmer B., assignor to Thompson Manufacturing Company, Des Moines, Iowa. Pump mechanism. (Reissue.) No. 15,415; July 18.
- Thompson, John S., Chicago, Ill. Strip-casting machine. No. 1,423,474; July 18.
- Thompson Manufacturing Company. (See Thompson, Elmer B., assignor.)
- Thompson, William L., Greenville, Miss. Bucket. No. 1,423,047; July 18.
- Tickometer Company, The. (See Kimball, Robert E., assignor.)
- Tiffany, Gerald W., assignor of one-half to N. J. Fitzsimmons, New York, N. Y. Device for protecting safes or other enclosures. No. 1,422,903; July 18.
- Tift, Herbert L., Williamam, Conn. Sound-box diaphragm. No. 1,423,368; July 18.
- Tomlinson, Charles H., assignor, by mesne assignments, to The Tomlinson Coupler Company, Mansfield, Ohio. Electric coupling. No. 1,422,905; July 18.
- Tomlinson Coupler Company, The. (See Tomlinson, Charles H., assignor.)
- Trenary, William F., Atlanta, Ga. Centrifugal pump. No. 1,423,369; July 18.
- Tucker, Lawrence T., Pollock, Mo. Hoisting apparatus. No. 1,422,904; July 18.
- Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel. No. 1,423,048; July 18.
- Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel of liquid type. No. 1,423,049; July 18.
- Tunison, Burnell R., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Liquid fuel. No. 1,423,050; July 18.
- Tweedie, Charles, Jefferson City, Mo. Boot top. (Reissue.) No. 15,416; July 18.
- Two Part Rim Co. Inc. (See Johnson, Alcin L., assignor.)
- Tyler, W. S., Company, The. (See Reynolds, Morley P., assignor.)
- Uhlarik, Julius C., Valhalla, N. Y., assignor to Robins Conveying Belt Co. Revolving shaker screen. No. 1,423,370; July 18.
- Ullman, Mervin J. (See Le Merle, F. G., Ullman, and Barry.)
- Unger, Paul O. (See Fargo, C. R., and Unger.)
- Union Industrial Company. (See Holt, Charles A., assignor.)
- Union Special Machine Company. (See Moffatt, James R., assignor.)
- United States Radium Corporation. (See Dey, William H., assignor.)
- Unit Motor Company. (See Smith, Frank W., assignor.)
- Urich, Benjamin, Milwaukee, Wis. Key-carrying chain. No. 1,423,280; July 18.
- U. S. Industrial Alcohol Co. (See Steffens, John A., assignor.)
- U. S. Industrial Alcohol Co. (See Tunison, Burnell R., assignor.)
- U. S. Industrial Alcohol Co. (See Whitaker, Milton C., assignor.)
- Vafiades, George, and J. Koukos, New York, N. Y. Fruit seeder and slicer. No. 1,423,490; July 18.
- Van Brunt, John, assignor to Combustion Engineering Corporation, New York, N. Y. Furnace. No. 1,423,281; July 18.
- Van Deusen, Harry N. (See Young, C. R., and Van Deusen.)
- Van Dyke, William H. (See Anderson, C. J., and Van Dyke.)
- Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing machine. No. 1,423,051; July 18.
- Van Guelpen, Louis J., Cincinnati, Ohio. Burnishing tool. No. 1,423,052; July 18.
- Van Guelpen, Louis J., Cincinnati, Ohio. Pasting machine. No. 1,423,282; July 18.
- Van Loozen, Fred H., Lakewood, Ohio. Demountable rim. No. 1,423,283; July 18.
- Vernon, Percy V., Keresley, England. Saw for cutting metals. No. 1,423,504; July 18.
- Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
- Victorine, Edward, Cedar Rapids, Iowa. Egg-preserving compound. No. 1,423,053; July 18.
- Vierow, Thomas S., Jersey City, N. J. Dough-dividing machine. No. 1,423,371; July 18.
- Vintschger, Max. (See Schwarz, G. H., and Vintschger.)
- Vörsmann, Karl, Brunn, Austria. Water-tube boiler. No. 1,423,372; July 18.

- Wagner, Alfred D., Eureka, Kans. Corn-husking hook. No. 1,422,906; July 18.
- Wagner, Fritz. (See Brown, R. P., and Wagner.)
- Wagenhorst, James H., Jackson, Mich. Metal wheel. No. 1,423,373; July 18.
- Walker, Henry C. (See Kampfe, Otto, assignor.)
- Walker, John B., Minerva, Ohio. Tractor-wheel weight. No. 1,423,054; July 18.
- Walker, Viola K., administratrix. (See McGahan, Frederick L.)
- Wallbillich, Anthony F. (See Caracristi, V. Z., and Wallbillich.)
- Walling, John P. (See Nichols, George T., assignor.)
- Walters, Charles A., near Marion, Iowa. Tool handle. No. 1,423,055; July 18.
- Warner, Maurice L., assignor to Manning, Bowman & Company, Meriden, Conn. Percolator. No. 1,423,475; July 18.
- Warner, Sylvester C., McClure, Ohio. Beet topper. No. 1,423,374; July 18.
- Watt, Frederick, assignor of one-third to T. J. Pembor, Chicago, Ill. Building construction. No. 1,423,375; July 18.
- Watts, George F., Boston, Mass. Derrick. No. 1,423,376; July 18.
- Watts, George F., Boston, Mass. Mast top. No. 1,423,377; July 18.
- Weaver, Frederick H., New York, N. Y. Form for concrete pipes. No. 1,423,284; July 18.
- Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine bobbin case. No. 1,423,056; July 18.
- Webb, Mortimer A., Jr. (See Reeves, L. C., and Webb.)
- Webb, Wilfred L. (See Crossley, K. I., and Webb.)
- Weeks, Edmund G. (See Michie, A. C., and Weeks.)
- Wenger, Arthur W. (See Rodgers, C. M., and Wenger.)
- Wesson, Harold, Springfield, Mass. Method and apparatus for finishing curved surfaces. No. 1,423,378; July 18.
- West, Oscar M., St. Paul, Minn. Automobile direction signal. No. 1,423,379; July 18.
- Western Electric Company. (See Crandall, Irving B., assignor.)
- Western Electric Company. (See Hocker, Carl D., assignor.)
- Western Electric Company. (See Maxfield, Joseph P., assignor.)
- Western Electric Company. (See Nichols, Harold W., assignor.)
- Western Electric Company. (See Young, C. R., and Van Deusen, assignors.)
- Western Felt Works. (See Faurot, Henry, Jr., assignor.)
- Western Pipe and Steel Company of California. See Tallerday, Howard G., assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
- Westinghouse Air Brake Company, The. (See Thomas, Frank B., assignor.)
- Westinghouse Electric Products Company. (See Haynsworth, Julius D., assignor.)
- Westinghouse Electric & Manufacturing Company. (See Kasley, Alexander T., assignor.)
- Westinghouse Electric & Manufacturing Co. (See Schmidt, Henry F., assignor.)
- Westinghouse Electric and Manufacturing Company. (See Snyder, John E., assignor.)
- Whatmough, Wilfred A. (See Keith, G., and Whatmough.)
- Wherland, Robert F., Stanlev, N. Dak. Electrically-heated apparatus. No. 1,423,380; July 18.
- Whibley, Benjamin, Winnipeg, Manitoba, Canada. Window. No. 1,423,057; July 18.
- Whitaker, Milton C., New York, N. Y., assignor to U. S. Industrial Alcohol Co. Fuel adapted for use in internal-combustion engines. No. 1,423,058; July 18.
- White, Ernest M., Los Angeles, Calif. Homogenizer. No. 1,423,170; July 18.
- White, J. H., Manufacturing Company. (See Keller, Karl, assignor.)
- Whitman, Harry A., assignor to S. J. Whitman, Binghamton, N. Y. Vehicle signal. No. 1,423,285; July 18.
- Whitman, Selina J. (See Whitman, Harry A., assignor.)
- Wickwire Spencer Steel Corporation. (See Southwick, William S., assignor.)
- Wilkinson, Jesse, Winnipeg, Manitoba, Canada. Oil burner. No. 1,422,907; July 18.
- Williams, Milton F., assignor of forty-nine one-hundredths to H. M. Plaisted, St. Louis, Mo. Pulley. No. 1,423,476; July 18.
- Williams, Samuel, Toledo, Ohio. Paper holder. No. 1,423,286; July 18.
- Williams, Thomas W., Pittsburgh, Pa. Car wheel. No. 1,423,381; July 18.
- Williamson, Clarence H., Bellwood, Pa. Hopper-door mechanism. No. 1,423,287; July 18.
- Williamson, Colonel J., assignor to Williamson Machine Company, San Francisco, Calif. Apparatus for washing and cleaning eggs. No. 1,423,059; July 19.
- Williamson Machine Company. (See Williamson, Colonel J., assignor.)
- Wilmot, John F., Detroit, Mich. Disk wheel. No. 1,423,060; July 18.
- Wilson, B. O. & G. C., Inc. (See Hill, Wilford A., assignor.)
- Withers, William L., Salt Lake City, Utah. Dental fastening for removable bridges and partial plates. No. 1,423,288; July 18.
- Wittcoff, Edward, St. Louis, Mo. Seat cover. No. 1,422,908; July 18.
- Willys Corporation. (See Post, Truman W., assignor.)
- Winters, W. B., et al. (See Lemons, Joseph F., assignor.)
- Wolfe, James T., Washington, D. C. Foldable vehicle top. No. 1,423,061; July 18.
- Wolff, Eugen, Tempelhof, near Berlin, Germany. Taking an orchestra conductor for cinematographic exhibition. No. 1,422,909; July 18.
- Worner, George R., assignor to Taylor Instrument Companies, Rochester, N. Y. Engraving machine. No. 1,423,289; July 18.
- Wright, John W. (See Collison, J. G., Wright, Filbert, and Frank.)
- Wright, Isaac H., Salford, England. Gear-cutting machine. No. 1,423,062; July 18.
- Wybert, Ernst. (See Gams, A., and Wybert.)
- Yeomans, William H. (See Applegate, E. B., and Yeomans.)
- Yoder, David A. (See Eberly, Sylvester, assignor.)
- Young, Charles R., Bloomfield, and H. N. Van Deusen, East Orange, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Terminal box for electric cables. No. 1,422,910; July 18.
- Young, Reginald C. (See Gallagher, R. B., and Young.)
- Zaiden, David, East Orange, N. J. Walking doll. No. 1,423,382; July 18.
- Zaiden, David, East Orange, N. J. Hula doll. No. 1,423,383; July 18.
- Zeller, Isaiah N., Chicago, Ill. Matrix-making machine. No. 1,423,290; July 18.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

- American Fabrics Company, The. (See Philips, Hans A., assignor.)
- Byron Weston Company. (See Weston, Donald M., assignor.)
- Carey Tire & Rubber Company, The. (See Carnal, William, assignor.)
- Carnal, William, Akron, assignor to The Carey Tire & Rubber Company, Carey, Ohio. Tire. No. 61,221; July 18.
- Crowell, Gilbert L., Jr., Arlington, N. J., assignor to Dominick & Huff, New York, N. Y. Dish, plate, or similar article. No. 61,222; July 18.
- Dominick & Huff. (See Crowell, Gilbert L., Jr., assignor.)
- Draycott John, Pawtucket, R. I. Lace. No. 61,223; July 18.
- Duryea, Minga P., and C. Ingraham, New York, N. Y. Toy. No. 61,224; July 18.
- Gannon, Joseph, Walton, assignor to Steinfeld Bros., New York, N. Y. Tray. No. 61,225; July 18.
- General Electric Company. (See Gosling, Joseph W., assignor.)
- Gosling, Joseph W., Schenectady, N. Y., assignor to General Electric Company. Standard for lighting fixtures. No. 61,226; July 18.
- Ingraham, Corinne. (See Duryea, M. P., and Ingraham.)
- Kenyon, C., Company. (See Mitchell, Harold D., assignor.)
- Kotato, Teiji, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Nos. 61,227-41; July 18.
- McFaddin, Harrison D., East Orange, N. J. Lamp shade, globe, or similar article. No. 61,242; July 18.
- Mitchell, Harold D., assignor to C. Kenyon Company, Brooklyn, N. Y. Tire tread. Nos. 61,243-5; July 18.
- Morimura Bros., Inc. (See Kotato, Teiji, assignor.)
- Noe, William R., & Sons. (See Roettges, Frederick, assignor.)
- Ochse, William, San Antonio, Tex. Combination watch and knife. No. 61,220; July 18.
- Philips, Hans A., Stratford, Conn., assignor to The American Fabrics Company, Lace. No. 61,246; July 18.
- Reizenstein, Charles L., Pittsburgh, Pa. Glass dish. Nos. 61,247-52; July 18.
- Riordan, Patrick D., New York, N. Y. Flag for Ireland. No. 61,253; July 18.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. Nos. 61,254-7; July 18.
- Roettges, Frederick, Stamford, Conn., assignor to William Noe & Sons, New York, N. Y. Pedestal for lighting fixtures. Nos. 61,258-63; July 18.
- Roettges, Frederick, Stamford, Conn., assignor to William R. Noe & Sons, New York, N. Y. Shade for lighting fixtures. No. 61,264; July 18.
- Steinfeld Bros. (See Gannon, Joseph, assignor.)
- Weston, Donald M., assignor to Byron Weston Company, Dalton, Mass. Calendar mounting. No. 61,265; July 18.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- Adams, C. C., Cleves, Ohio. Food confection comprising seedless raisins and roasted peanuts. No. 156,828; July 18.
- Aladdin Cinema Company, Inc., Malone, N. Y. Motion-picture cameras and projectors. No. 156,829; July 18.
- Allison-Bedford Co., Chicago, Ill. Canned fruits and vegetables, fruit preserves, table sauces, and dressings, etc. No. 156,830; July 18.
- American Molasses Company of New York, The, New York, N. Y. Table sirup. No. 156,831; July 18.
- American Wholesale Corporation (Baltimore Bargain House), Baltimore and Cumberland, Md. Crockery, cooking utensils and dishes, flowerpots, etc. No. 156,972; July 18.
- Apple Gum Company, Inc. (See Kitchell, Joseph G., assignor.)
- Associated Manufacturers Company, Waterloo, Iowa. Internal-combustion engines and cream-separating machines. No. 156,832; July 18.
- Auto Truck Service Co., Inc., Milwaukee, Wis. Dump carts. No. 156,969; July 18.
- Baker, J. Howard, Fort Smith, Ark. Cough sirup. No. 156,833; July 18.
- Bankes, Herman A., St. Louis, Mo. Taffy or molasses candy. No. 156,834; July 18.
- Bay Bee Oil Co., New York, N. Y. Oil compound. No. 156,835; July 18.
- Beautypeel Cosmetic Co. (See Newlyn, Thomas J.)
- Berkenfeld, Irving, doing business as The Field Laboratories, Erie, Pa. Food-flavoring extracts, spices, and sauces. No. 156,964; July 18.
- Bestex Hosiery Co. Inc., New York, N. Y. Hosiery. No. 156,836; July 18.
- Billingsley, P. L., Company, The, Cincinnati, Ohio. Flexible driving mechanism and woodworking and grinding machinery. No. 156,837; July 18.
- Binninger, Frank H., Cleveland, Ohio. Sheet-rubber patches for tire tubes, hot-water bottles, raincoats, etc. No. 156,840; July 18.
- Binninger, Frank H., Cleveland, Ohio. Tire-tube patches. Nos. 156,838-9; July 18.
- Bishop & Company, Los Angeles, Calif. Chocolate candy. No. 156,841; July 18.
- Blank, Frederic, & Co., New York, N. Y. Salmon in cans or in brine. No. 156,842; July 18.
- Boehm, Henry C., Jersey City, N. J. Candy. No. 156,843; July 18.
- Bonita Co., The, Fond du Lac, Wis. Candy. No. 156,844; July 18.
- Boott Mills, Lowell, Mass. Cotton cloth in the piece, towels, and toweling. No. 156,845; July 18.
- Borgfeldt, George, & Co., New York, N. Y. Cooking dishes for toy stoves. No. 156,846; July 18.
- Buertell Brothers Company, Dubuque, Iowa. Fireworks. No. 156,847; July 18.
- Burns Syrup Company, Macon, Ga. Cane and corn sirups mixed for food purposes. No. 156,848; July 18.
- Byrnes, Eugene, New York, N. Y. Certain articles of clothing. No. 156,849; July 18.
- Caulk, L. D., Company, The, Milford, Del. Certain chemicals and dental preparations. No. 156,850; July 18.
- Central Coffee Co. Inc., Brooklyn, N. Y. Coffee. No. 156,851; July 18.
- Chalmers, Harry B., New York, N. Y. Candy. No. 156,852; July 18.
- Chevy Chase Food Products Co., Washington, D. C. Food relishes—namely, mayonnaise and Russian dressing. No. 156,853; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided silk fishing lines. No. 156,948; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Japan-silk fishing lines. No. 156,949; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided enameled Japan-silk fishing lines. Nos. 156,950-1; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided Japan-silk enameled fishing lines. No. 156,952; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 156,953; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Cuttyhunk bass and tarpon fishing lines. No. 156,954; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Surfman's cuttyhunk fishing lines. No. 156,955; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Cuttyhunk fishing lines. No. 156,956; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Irish-linen braided cuttyhunk fishing lines. No. 156,957; July 18.
- Crocker Packing Co., San Francisco, Calif. Table sirup. No. 156,855; July 18.
- Curtis Manufacturing Company, Los Angeles, Calif. Steam cooking kettles. No. 156,856; July 18.
- Daarnhouver & Co. Inc., New York, N. Y. Cocoa butter. No. 156,857; July 18.
- Dairymen's League Co-Operative Association, Inc., Utica, N. Y. Butter, condensed and evaporated milks. No. 156,858; July 18.
- Dantzler, Mortimer O., Orangeburg, S. C. Table sirup. No. 156,859; July 18.
- Duggan, Miner P., Sioux City, Iowa. Aprons. No. 156,860; July 18.
- Dyktor Brothers Inc., New York, N. Y. Carbon and high-speed steel, twist drills, reamers, rasps, taps, etc. No. 158,861; July 18.
- Eisenlohr, Otto, & Bros. Inc., Philadelphia, Pa. Cigars. No. 156,862; July 18.
- Emerson Pharmaceutical Laboratories, West Hoboken, N. J. Insect fluid. No. 156,863; July 18.
- Epstein, Isaac, Newark, N. J. Smoked sardines. No. 156,864; July 18.
- Estate of John E. Townsend, Milton, N. H. Cotton and wool blankets. No. 156,932; July 18.
- Estate of Joseph J. Schaefer, Dayton, Ohio. Cigars. Nos. 156,919-20; July 18.
- Farkas, George, New York, N. Y. Women's, misses' and children's dresses and frocks. No. 156,865; July 18.
- Field Laboratories, The. (See Berkenfeld, Irving.)
- Pink-Cimioti, Inc., New York, N. Y. Ladies' hats. No. 156,866; July 18.
- Frank, Richard, & Co. (See Frank, Richard.)
- Frank, Richard, trading as Richard Frank & Co., New York, N. Y. Fruit frappé. No. 156,867; July 18.
- Gamecraft and Toy Company, New York, N. Y. Table board game played with pieces. No. 156,868; July 18.
- General Tire and Rubber Company, The, Akron, Ohio. Tire retreads of rubber and fabric in the piece. No. 156,869; July 18.
- Goldfredrick, R. M., Chicago, Ill. Rain garment comprising combined hood and cape. No. 156,870; July 18.
- Goldstein, Bernard J., Brooklyn, N. Y. Motor-driven and hand-drawn fire extinguishers and chemical fire engines. No. 156,871; July 18.
- Goldston, Nat., & Co., New York, N. Y. Dresses. No. 156,872; July 18.
- Gotham Novelty Co., New York, N. Y. Children's suits and dresses. No. 156,873; July 18.
- Grab, O. F., & Co., New York, N. Y. Certain articles of clothing. No. 156,874; July 18.
- Green, Phoebe Company, Yakima, Wash. Fruit marmalades, jams, conserves, etc. No. 156,910; July 18.
- Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Preparation for coagulating or curdling milk. No. 156,854; July 18.
- Heidelberger Confectionery Co., Philadelphia, Pa. Chocolates. No. 156,875; July 18.
- Heinrichshofen, Robert, St. Louis, Mo. Nonalcoholic maltless extracts, colors and flavors for soft drinks. No. 156,876; July 18.
- Hewes & Potter, Boston, Mass. Bow neckties. No. 156,878; July 18.
- Holmac, Inc., New York, N. Y. Golf balls. No. 156,880; July 18.
- Holmac, Inc., New York, N. Y. Golf clubs, balls, shirts, heads, grips, etc. No. 156,879; July 18.
- Hurty-Peck & Company, Indianapolis, Ind. Nonalcoholic maltless beverage and sirup for making same. No. 156,881; July 18.
- International Development Company, Boston, Mass. Skates. No. 156,882; July 18.
- Isle of Wight Water Company, Dover, Del., and Philadelphia, Pa. Mineral water. No. 156,883; July 18.
- Johnson-Layne Coffee Company, The, St. Louis, Mo. Coffee. No. 156,884; July 18.
- Jönköpings Och Vulcans Tandsticksfabriksaktiebolag, Jonkoping, Sweden. Matches. No. 156,885; July 18.
- Kelmet Corporation, New York, N. Y. Toys. No. 156,886; July 18.
- Kitchell, Joseph G., New York, N. Y. Chewing gum. No. 156,887; July 18.
- Kitchell, Joseph G., assignor to Apple Gum Company, Inc., New York, N. Y. Chewing gum. No. 156,888; July 18.
- Leiber, Max, & Company, Donora, Pa. Nonalcoholic maltless beverages or drink. No. 156,889; July 18.
- Levy, Ernest & Hermann, Inc., New York, N. Y. Ribbons for making camisoles. No. 156,970; July 18.
- Lexington Motor Company, Connerville, Ind. Automobiles. No. 156,890; July 18.
- Loewe, D. E., & Co., Danbury, Conn. Men's and children's hats and caps. No. 156,947; July 18.
- Marshall Field & Company, Chicago, Ill. Women's and girls' underwear, shirt waists, infants' underwear and dresses. No. 156,891; July 18.
- Massachusetts Cotton Mills, Boston, Mass. Cotton piece goods. No. 156,892; July 18.
- Merckens Inc., New Brunswick, N. J. Chocolates, chocolate bars, chocolate nut bars. No. 156,893; July 18.
- Morris Nagel & Co. Inc., New York, N. Y. Ladies' and misses' dresses. No. 156,894; July 18.
- Nash Coffee Company, Minneapolis, Minn. Coffee. No. 156,895; July 18.

National Fruit Flavor Co., New Orleans, La. Flavoring extracts for non-alcoholic beverages. No. 156,896; July 18.

Newlyn, Thomas J., trading as Beautypool Cosmetic Co., El Paso, Tex. Cosmetic lotion. No. 156,897; July 18.

Northern California Fruit Co., Lodi, Calif. Fresh deciduous fruits. No. 156,898; July 18.

Northwest Fruit Products Co., Salem, Oreg. Nonalcoholic, maltless beverage of pure fruit juices. No. 156,899; July 18.

Northwestern Yeast Company, Chicago, Ill. Yeast. No. 156,905; July 18.

Nunnally Company, The, Atlanta, Ga. Candy. No. 156,900; July 18.

Ottenheimer, Goldman Co. Inc., The, Baltimore, Md. Certain articles of clothing. No. 156,901; July 18.

Paabst Corporation, Milwaukee, Wis. Malt extract used by bakers for food purposes. No. 156,902; July 18.

Pacific Mills, Boston, Mass. Cotton piece goods. No. 156,903; July 18.

Package Confectionery Company, Boston, Mass. Candy. No. 156,904; July 18.

Palmer Candy Co., Sioux City, Iowa. Candy. No. 156,905; July 18.

Panitz, Isador, Baltimore, Md. Undershirts, drawers, union suits, waists, negligee shirts, pyjamas, and night robes. No. 156,906; July 18.

Pearson, Fred, & Company, Philadelphia, Pa. Plush goods in the piece. No. 156,908; July 18.

Penney, J. C., Company, Salt Lake City, Utah, and New York, N. Y. Men's and boys' work shirts and boys' blouses and play suits. No. 156,909; July 18.

Peruna Cimpny, The, Columbus, Ohio. Certain medicinal preparation. Nos. 156,966-7; July 18.

Piston Ring Company, The, Muskegon Heights, Mich. Piston rings. No. 156,960; July 18.

Poage, Clifford B., Columbus, Ohio. Finger rings. No. 156,911; July 18.

Polkase Mfg. Co., New York, N. Y. Baby outfits. No. 156,912; July 18.

Prince, H. G., & Co., Oakland, Calif. Canned fruits. No. 156,913; July 18.

Rassias, George L., Brooklyn, N. Y. Candy. No. 156,914; July 18.

Rich Pump and Ladder Company, Cincinnati, Ohio. Ladders. No. 156,961; July 18.

Rogers Peet Company, New York, N. Y. Men's and boys' knitted underwear. No. 156,915; July 18.

Sachem Manufacturing Company, Inc., Brockton, Mass. Toys. No. 156,916; July 18.

Safandshur Chemical Co., Inc., New York, N. Y. Fire-extinguisher fluid. No. 156,971; July 18.

Salvo, Alfred L., Augusta, Ga. Flying toy. No. 156,917; July 18.

Savory, H. L., and Company. (See Savory, Harry L., assignor.)

Savory, Harry L., deceased; R. Shurey, executor, assignor to H. L. Savory and Company, Limited, London, England. Cigarettes. No. 156,918; July 18.

Schoeneman, J., Incorporated, Baltimore, Md. Certain articles of clothing. No. 156,922; July 18.

Shackman, B., & Co., New York, N. Y. Snapping mot-toes. Nos. 156,958-9; July 18.

Shell Rock Spring Water Co., Inc., Perth Amboy, N. J. Natural spring water. No. 156,923; July 18.

Shurey, Reginald, executor. (See Savory, Harry L.)

Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton goods in the piece. No. 156,924; July 18.

Smith, W. T., & Son, Inc., Philadelphia, Pa. Fabric known as a royal Turkish rug. No. 156,925; July 18.

Snow, Maggie S., Charlottesville, Va. Certain medicinal preparations. No. 156,926; July 18.

Solomons, Harry, & Son, New York, N. Y. Ladies' hats. No. 156,927; July 18.

Springer Chocolate Co. Inc., New York, N. Y. Candies. No. 156,928; July 18.

Staadecker & Co., Seattle, Wash. Ladies' trimmed hats. No. 156,929; July 18.

Steele Packing Company, San Diego, Calif. Canned fish, fruits, and vegetables. No. 156,930; July 18.

Stelwagon Manufacturing Co., Philadelphia, Pa. Felt roofing. Nos. 156,962-3; July 18.

Todd, T. S., & Co., New York, N. Y. Steam-trap air valves. No. 156,931; July 18.

Trion Company, Trion, Ga. Cotton goods in the piece. No. 156,933; July 18.

Tripi, Andrea H., Buffalo, N. Y. Preparation for the treatment of skin diseases. No. 156,968; July 18.

Union Tool Company, Torrance, Calif. Oil-well tools and equipment. No. 156,934; July 18.

Vaughan, Latimer C., New York, N. Y. Men's, ladies', and children's cotton, silk, fiber-silk, and wool hose. No. 156,935; July 18.

Wanamaker, John, New York, New York, N. Y. Ladies' misses', and children's dresses. No. 156,936; July 18.

Wangee Umbrella Co., New York, N. Y. Umbrella and parasol ferrules and ties. No. 156,937; July 18.

Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 156,938; July 18.

Webb Manufacturing Company, Nashville, Tenn. Flavoring extracts for food. No. 156,940; July 18.

Weber Lifelike Fly Co., The, Stevens Point, Wis. Silk-worm gut leaders, and leaders made of other material. No. 156,941; July 18.

Westmoreland Candy Company, Richmond, Va. Candy. No. 156,942; July 18.

Wm. Schluderberg-T. J. Kurdle Co., The, Baltimore, Md. Creamery butter, lard, jams, sausages, etc. No. 156,921; July 18.

Wood, James W., Poughkeepsie, N. Y. Candy and chewing gum. No. 156,939; July 18.

Woodman, F. T., Co., The, Cambridge, Mass. Wearing apparel for men, women, and children. No. 156,943; July 18.

Worden Grocer Company, Grand Rapids, Mich. Pepper, allspice, cinnamon, tumeric, ginger, cloves, sage, etc. No. 156,944; July 18.

Wyatt Bros., Chicago, Ill. Cottonseed-oil stearin. No. 156,973; July 18.

Young, Patrick, Company, Richmond, Va. Ham. No. 156,907; July 18.

Zaloom Brothers, New York, N. Y. Pistachio nuts. No. 156,945; July 18.

Zerillo, Lorenzo, Healdsburg, Calif. Fresh deciduous and dried fruits and grape sirup for food purposes. No. 156,946; July 18.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Ajemian, Matthew A., West New York, N. J. "Ajem Corn Paste." (For a Proprietary Medicine for the Removal of Corns and the Like.) No. 24,711; July 18.

American "E" Products Company, Minneapolis, Minn. "American 'E' Products Company." (For Powdered Soups.) No. 24,712; July 18.

Bennett, F. H., Biscuit Company, New York, N. Y. "Wheatworth Whole Wheat Graham Crackers." (For Crackers.) No. 24,713; July 18.

Bennett, F. H., Biscuit Company, New York, N. Y. "Maltoid Milk-Bone Puppy Food." (For Dog Biscuits.) No. 24,714; July 18.

Bernstein, Harry, Tampa, Fla. "Harry's Florida Pecan Roll." (For a Nut Confection.) No. 24,715; July 18.

Cunningham, John R., Kansas City, Mo. "Jack's Fish Ferrets." (For Fishing Tackle.) No. 24,716; July 18.

Cunningham, John R., Kansas City, Mo. "Jack's Bait Wiggle Tail." (For Containers for Fishing Bait.) No. 24,717; July 18.

Davenport Company, The. (See Davenport, Daniel F.)

Davenport, Daniel F., doing business as The Davenport Company, Americus, Ga. "Death-Bio Certainly Annihilates Pests." (For Packages Containing a Preparation for Destroying Insects.) No. 24,718; July 18.

Dexter, Eugene A., Springfield, Mass. "Dexter's Mother's Bread." (For Bread.) No. 24,719; July 18.

Donovan, Peter T., doing business as P. T. Donovan Co., New York, N. Y. "Varicosol." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) No. 24,720; July 18.

Garcia, Joseph A., & Company, New York, N. Y. "Flor De Garcia & Co. Havana." (For Cigars, Cigarettes, and Tobacco.) No. 24,721; July 18.

Gearo Mfg. Co., Quincy, Ill. "G M C Metallic Grease." (For Lubricating Grease.) No. 24,722; July 18.

Griburn Co., Inc., The, Philadelphia, Pa. "Grier's Grinding Compound." (For Compounds for Grinding in Bearings.) No. 24,723; July 18.

Hochschild Corporation, Chicago, Ill. "De Luxe Vanity." (For Powder Puffs.) No. 24,724; July 18.

Holmes Confectionery Company, The. (See Holmes, Harry G.)

Holmes, Harry G., doing business as The Holmes Confectionery Company, Middletown, Conn. "Holmes Honey Pops." (For Confectionery.) No. 24,725; July 18.

Ideal Tire and Rubber Company, The, Cleveland, Ohio. "On the Trail of a Good Tire." (For Vehicle Tires. Being Applied to the Boxes or Packages Containing the Same.) No. 24,726; July 18.

Kemp Bros. Packing Co., Frankfort, Ind. "Vitamine Tomatoes." (For Canned Tomatoes.) No. 24,727; July 18.

Kendall Products Corporation, New York, N. Y. "Graino." (For Soap.) No. 24,728; July 18.

Kendall Products Corporation, New York, N. Y. "Korex." (For Soap.) No. 24,729; July 18.

Kendall Products Corporation, New York, N. Y. "Kendene." (For Soap.) No. 24,730; July 18.

Murray, Emmett L., doing business as Murray's Pharmacy, Americus, Ga. "Murray's Fragrant Cream Violet For Beautifying The Complexion." (For 25¢, 35¢, and 50¢ Size Bottles Containing a Preparation for Beautifying the Complexion.) No. 24,731; July 18.

Murray's Pharmacy. (See Murray, Emmett L.)

Non-Rip Silk Hosiery Mills Inc., New York, N. Y. "Pure Silk." (For Hosiery.) No. 24,732; July 18.

Readi-Sew Package Co., Inc., The, New York, N. Y. "Style No. 2016, The Readi-Sew Package." (For an Envelope Containing Children's Ready-to-Sew Garments.) No. 24,733; July 18.
 Ruggiero, Antonio, Malden, Mass. "Ruggiero's Dentatura." (For Bottles or Cartons Containing a Mouth Wash.) No. 24,734; July 18.
 Short, David L. (See West, Augustus A., assignor.) Square, D Co., Detroit, Mich. "Square D Safety Switch." (For Electric Switches.) No. 24,735; July 18.
 Sturdivant, Franklin, Brownsville, Tenn. "Old Virginia Brunswick Stew." (For Canned Old Virginia Brunswick Stew.) No. 24,736; July 18.
 Sunshine Macaroni Mfg. Co., Inc., Brooklyn, N. Y. "Sunshine Macaroni." (For Macaroni.) No. 24,737; July 18.

Thayer, Allan C., Detroit, Mich. "A C T Chemical Products." (For Pieces of Paper or Other Material, Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) No. 24,738; July 18.
 Universal Products Co., Los Angeles, Calif. "Kill-O-Pest." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) No. 24,739; July 18.
 West, Augustus A., doing business as West Electric Hair Curler Co., assignor to D. L. Short, Philadelphia, Pa. "All-Season Veil." (For Veils.) No. 24,740; July 18.
 West Electric Hair Curler Co. (See West, Augustus A.) William, Henry R., San Francisco, Calif. "The World's Finest Fruit." (For Fruit Wrappers.) No. 24,741; July 18.
 Ziegler, Geo., Co., Milwaukee, Wis. "Ziegler's Aero Kisses." (For Candy Kisses.) No. 24,742; July 18.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Lead Pencil Company, New York, N. Y. "Venus Thin Leads." (For Advertising Purposes for Lead Pencils.) No. 6,210; July 18.
 Bassett, Frank A., Holyoke, Mass. "Coal." (For Advertising Purposes for Coal.) No. 6,211; July 18.
 Chrichton Bros., New York, N. Y. "The Winner's Cup." (For Advertising Purposes for Gold and Silver Ware.) No. 6,212; July 18.
 Dandercide Mfg. Co. (See Wantland, L. J.) Enterprise Manufacturing Company, The, Akron, Ohio. "Leaping Bass No. 2." (For Advertising Purposes for Fishing Tackle.) No. 6,213; July 18.
 Enterprise Manufacturing Company, The, Akron, Ohio. "Leaping Bass No. 1." (For Advertising Purposes for Fishing Tackle.) No. 6,214; July 18.
 Marietta Manufacturing Company, Point Pleasant, W. Va. "Made Mechanically Correct." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) No. 6,215; July 18.
 Mead Johnson & Company, Evansville, Ind. "Scientific Control vs. Indiscriminate Feeding." (For Advertising Purposes for Mead's Infant Diet Materials.) No. 6,216; July 18.

Non-Rip Silk Hosiery Mills Inc., New York, N. Y. "Featuring The Non Rip Silk Hosiery." (For Advertising Purposes for Hosiery.) No. 6,217; July 18.
 Richards, James E., Company, The, Dayton, Ohio. "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) No. 6,218; July 18.
 Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Sewing Motor." (For Advertising Purposes for Sewing Motors.) No. 6,219; July 18.
 Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Portable Electric." (For Advertising Purposes for Portable Electric Sewing Machines.) No. 6,220; July 18.
 Singer Manufacturing Company, The, Elizabeth, N. J. "Singer Electric Fans." (For Advertising Purposes for Electric Fans.) No. 6,221; July 18.
 Wantland, L. J., doing business as Dandercide Mfg. Co., Oklahoma, Okla. "Dandercide." (For Advertising Purposes for Hair Tonic.) No. 6,222; July 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abner-Drury Company, Washington, D. C. Ginger ale. No. 161,715; July 18.
 Ackermite Company of America, Reno, Nev. Bearing metal in pig form. No. 157,205; July 18.
 Aime Baboin & Cie., Lyon, France. Silk net goods in the piece. No. 153,967; July 18.
 Akins, Samuel W., doing business as B. B. Transmission Wood Lining Co., Denver, Colo. Wood brake and wood transmission linings. No. 159,914; July 18.
 America Brass Company, The, Waterbury, Conn. Cast, drawn, etc., metals and alloys and ingots, castings, sheets, rolls, wire, strips, rods, and tubes made from such metals and alloys. No. 158,354; July 18.
 American Abrasive Metals Company, New York, N. Y. Bank-vault lining plates of composite metal. No. 157,873; July 18.
 American Lady Corset Co., Detroit, Mich. Corsets, corset waists, brassières, bandeaux, etc. No. 159,456; July 18.
 Amsterdam, Peter, trading as The Amsterose Co., Philadelphia, Pa. Preparation used for shaving cream and chapped skin. No. 160,990; July 18.
 Amsterose Co., The. (See Amsterdam, Peter.)
 Anderson, Hans, Oakland, Calif. Carpenters' planes. No. 159,239; July 18.
 Art Metal Works, Inc., The, Newark, N. J. Pieces of sparking metal. No. 161,870; July 18.
 Ashaway Line & Twine Manufacturing Company, Ashaway, R. I. Fishing line. No. 163,727; July 18.
 Atlas Torch Mfg. Co. (See Gundermann, Philip H.)
 Bachmann, J., & Co. (See Bachmann, Jacob.)
 Bachmann, Jacob, doing business as J. Bachmann & Co., New York, N. Y. Leather belting. No. 160,652; July 18.
 Baker, Jacobs, & Company, Buffalo, N. Y. Neckties. No. 157,133; July 18.
 Bardon, Ray O., Upper Sandusky, Ohio. Antislipping attachment for shoes. No. 155,003; July 18.
 B. B. Transmission Wood Lining Co. (See Akins, Samuel W.)
 Bearden, P. L., Dallas, Tex. Polishing cloth. No. 162,476; July 18.
 Beardsley & Piper Company, The, Chicago, Ill. Machines for making molds for founding. No. 159,549; July 18.

Beckman-Dawson Roofing Co., Chicago, Ill. Prepared roofing and asphalt shingles. No. 147,086; July 18.
 Belmont Hosiery Company, Belmont, N. H. Hosiery. No. 155,659; July 18.
 Bendick, Sidney S., doing business as The Trancilla Company, New York, N. Y. Chemical composition employed in stamping patterns for art needlework. No. 165,264; July 18.
 Blair, J. C., Company, Huntingdon, Pa. Paper, correspondence envelopes, tablets, and blank books. No. 164,306; July 18.
 Bodek, W., Company, Incorporated, Philadelphia, Pa. Ribbons, cotton, woolen, and silk goods, all in the piece. No. 151,199; July 18.
 Boston Insulated Wire & Cable Co., Boston, Mass. Electric conductors, wires, and cables. No. 160,534; July 18.
 Bourjois, A., & Co. Inc., New York, N. Y. Toilet powder, toilet water and lotions, sachet powder, etc. No. 156,953; July 18.
 Boyle, John, & Company, Incorporated, New York, N. Y. Cotton duck. No. 156,733; July 18.
 Bridgeport Brass Company, Bridgeport, Conn. Non-ferrous metals in the form of ingots, billets, slabs, sheets, wire, rods, and tube blanks. No. 158,110; July 18.
 Brown, C. P., Mfg. Co., Des Moines, Iowa. One-piece work suits. No. 153,031; July 18.
 Brown, C. P., Mfg. Co., Des Moines, Iowa. Overalls, coats, pants, knickers, and work shirts. No. 153,032; July 18.
 Burns, George J., Youngstown, Ohio. Fuel-feeding apparatus for internal-combustion engines. No. 159,779; July 18.
 Cadillac Phonograph Corporation, Chicago, Ill. Phonographs and tone arms, sound boxes, horns, and amplifiers. No. 134,058; July 18.
 California Bottling Co., Brooklyn, N. Y. Beverages sold as soft drinks and sirups for making same. No. 159,920; July 18.
 Carpenter, Geo. B., & Co., Chicago, Ill. Cotton waste. No. 161,225; July 18.
 Chancy, Jackson B., Lake Butler, Fla. Preparation for treatment of niles, leucorrhea, burns, eczema, etc. No. 154,435; July 18.

- Chemische Fabrik von Heyden, Aktiengesellschaft Radebeul, Germany. Solutions for parenteral protein therapeutics. No. 152,954; July 18.
- Cladwell Distributing Company, New York, N. Y. Knitted sweaters. No. 156,357; July 18.
- Cleveland Metal Products Company, The, Cleveland, Ohio. Oil stoves, burners, and water heaters, and ovens for oil stoves. No. 161,301; July 18.
- Cohn & Rosenberger, Inc., New York, N. Y. Bracelets. No. 164,494; July 18.
- Cohen, Tully S., doing business as R. Frost & Co., New York, N. Y. Children's and misses' dresses. No. 154,401; July 18.
- Colson, Sarah A. and J. L., administratrices of the estate of Edwin Colson, Elmer, N. J. Seed potatoes. No. 163,672; July 18.
- Columbus Manufacturing Company, Columbus, Ga. Cotton sheetings. No. 155,254; July 18.
- Compagnie Industrielle et Commerciale du Cycle et de l'Automobile, Neuilly-sur-Seine, France. Mechanically-operated warning devices. No. 142,005; July 18.
- Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Silk gloves. No. 157,409; July 18.
- Corn Products Refining Co., New York, N. Y. Laundry starch. No. 160,949; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided cotton fishing lines. No. 164,361; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Japan-silk waterproof fishing lines. No. 164,366; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 164,368; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Enameled Japan-silk fishing lines. No. 164,370; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Oiled-silk fishing lines. No. 164,371; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Braided Japan-silk enameled fishing lines. No. 164,374; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Pure-silk fishing lines. No. 164,385; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Pure Japan-silk fishing lines. No. 164,387; July 18.
- Cortland Line Co. Inc., Cortland, N. Y. Fishing lines. No. 164,390; July 18.
- Crosfield, Joseph & Sons, Limited, Warrington, England. Bleaching and water softening preparation. No. 160,997; July 18.
- D. & M. Healing Salve Co., The. (See De Laporte, Peter A.)
- Dae Health Laboratories. (See International Consolidated Chemical Corporation.)
- Daniel Brent, doing business as the Radio Instrument Company, Washington, D. C. Radio telegraph and telephone transmitting and receiving apparatus. No. 162,669; July 18.
- David, John, New York, N. Y. Men's hats, overcoats, suits, raincoats, sweaters, etc. No. 158,418; July 18.
- De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 159,307; July 18.
- De Bevoise, Chas. R., Co., Newark, N. J. Bandeaux. No. 159,500; July 18.
- De Bevoise, Chas. R., Co., Newark, N. J. Brassières. No. 159,744; July 18.
- Decker Manufacturing Company. (See Estate of A. C. Decker.)
- De Laporte, Peter A., doing business as The D. & M. Healing Salve Co., Lodi, Calif. Salve for the treatment of eczema, itchings, burns, and cuts. No. 129,451; July 18.
- Deming Company, The, Salem, Ohio. Pumps. No. 152,549; July 18.
- Dietzen, Eugene, Company, Chicago, Ill. Lead pencils. No. 164,027; July 18.
- Dilla, Charles, Chicago, Ill. Preparation for the treatment of stomach, bowels, kidney, and heart trouble. No. 160,538; July 18.
- Duesenberg Automobile & Motors Co. Inc., Indianapolis, Ind. Motor cars. No. 160,877; July 18.
- Eagle Chemical Company, Milwaukee, Wis. Cleansing, sterilizing, and disinfecting compound. No. 162,810; July 18.
- Eckl, Edward, Los Angeles, Calif. Refrigerators. No. 160,933; July 18.
- Edelman, Philip E., New York, N. Y. Complete loud-speaking wireless receiving sets, radio cabinets, etc. No. 162,616; July 18.
- Enell, William H., doing business as Warren Laboratories, Rochester, N. Y. Medicine for stomach troubles. No. 162,388; July 18.
- Estate of A. C. Decker, doing business as Decker Manufacturing Company, Keokuk, Iowa. Implement for applying rings to noses of animals. No. 159,856; July 18.
- Estate of Edwin Colson. (See Colson, Sarah A. and J. L.)
- Everett Electric Corporation, New York, N. Y. Head receivers, condensers, transformers, etc. No. 161,242; July 18.
- Fels, Hattie, New York, N. Y. Clothing for children to be worn as an outer garment. No. 158,302; July 18.
- Fiat, Turin, Italy. Boards, panels of wood, sheets and panels of veneer, and metal reinforcing bars. No. 148,269; July 18.
- Fiat, Turin, Italy. Dynamos, electromotors, alternators, and parts thereof, converters, etc. No. 148,270; July 18.
- Fischer, Albert C., doing business as Serviced Products Company, Chicago, Ill. Roofing and barn paints, cold-water, oil, metal, and dampproofing paints. No. 130,819; July 18.
- Fishman, Melvin, New York, N. Y. Men's and boys' suits and coats. No. 148,325; July 18.
- Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber vehicle tires. No. 161,043; July 18.
- Ford & Manion, Inc., Wilmington, Del. Electric heaters for heating liquids. No. 158,674; July 18.
- Foster, Merriam & Company, Meriden, Conn. Metallic piston rings. No. 162,106; July 18.
- Fowler-Nicolet Co., Inc., Rutland, Vt., and New York, N. Y. Men's shirts and boys' negligee shirts, pyjamas, and night robes. No. 156,786; July 18.
- Freedman, A. & Sons, assignors to A. Freedman & Sons Incorporated, Boston, Mass. Boots and shoes. No. 149,278; July 18.
- Frost, R., & Co. (See Cohen, Tully S.)
- Fuchs & Lang Manufacturing Company, The, New York, N. Y., and East Rutherford, N. J. Printing and lithographic inks. No. 157,419; July 18.
- Fulton Drug Co. (See Gunter, Daniel J.)
- Gehman & Weinert, Newark, N. J. Electrical apparatus, more particularly tuning-coil sliders. No. 160,548; July 18.
- General Steel Products Co., Detroit, Mich. Bar, sheet, and band steel and steel plates. No. 141,302; July 18.
- Gerb- und Farbstoffwerke H. Renner & Co. Actien-Gesellschaft, Hamburg, Germany. Solid and liquid tanning extracts. No. 158,473; July 18.
- Gillette Safety Razor Company, Boston, Mass. Safety-razor blades. No. 159,148; July 18.
- Gilpin, Donald N., doing business as The Kro-Ko Corporation, Baltimore, Md. Insecticides. No. 159,415; July 18.
- Glazier Mfg. Company, The, South Glastonbury, Conn. Woolen piece goods. No. 160,758; July 18.
- Glemby's, S. Sons Co. Inc., New York, N. Y. Hair nets. Nos. 163,388-90; July 18.
- Golde-Patent Manufacturing Co., Inc., New York, N. Y. Waterproofed top and seat cover cloth of a textile material. No. 156,156; July 18.
- Goldfarb & Friedberg, Inc., New York, N. Y. White gold. No. 158,183; July 18.
- Good, Geo. S., Fire Brick Co., Patton, Pa. Fire bricks and paving blocks. No. 113,560; July 18.
- Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings made of rubber combined with fabric. No. 162,167; July 18.
- Graham, William, New York, N. Y. Leather. No. 161,434; July 18.
- Grain Juice Company, Dallas, Tex. Beverages sold as soft drinks and sirups for making same. No. 163,442; July 18.
- Greenbaum Company, The, Louisville, Ky. Medicated healing ointment or salve. No. 160,546; July 18.
- Gsell, Roland A., New York, N. Y. Watches and watch movements, watchcases, and parts thereof. No. 144,617; July 18.
- Gundermann, Philip H., doing business as The Atlas Torch Mfg. Co., Chicago, Ill. Plumbers' torches. No. 161,833; July 18.
- Gunter, Daniel J., doing business as Fulton Drug Co., Atlanta, Ga. Blood purifier and nerve tonic. No. 157,834; July 18.
- Hancock, John W., doing business as J. W. Hancock Electrical Co., Denver, Colo. Electric-light fixtures. No. 162,405; July 18.
- Hart & Hezeman Manufacturing Company, The, Hartford, Conn. Electrical switches and pull sockets. Nos. 161,729-30; July 18.
- Holmac, Inc., New York, N. Y. Golf balls. No. 165,080; July 18.
- Holmac, Inc., New York, N. Y. Golf balls. Nos. 165,376-8; July 18.
- Holloway, Alonzo C., Hoisington, Kans. Cough sirup used in the treatment of colds, croup, whooping cough, etc. No. 163,273; July 18.
- Hogue, Fred. W., McGregor, Iowa. Liquid preparation for cleaning rugs, carpets, upholstery, etc. No. 163,043; July 18.
- Hubbs, Charles F., & Company, New York, N. Y. Wrapping paper. No. 164,250; July 18.
- Ideal Linen Mesh Co., Poughkeepsie, N. Y. Shawls and sweaters. No. 159,656; July 18.
- International Consolidated Chemical Corporation, Inc., doing business as Dae Health Laboratories, New York, N. Y. Medicinal preparation for malassimilation and nutritional disorders. No. 162,417; July 18.
- International Paper Company, New York, N. Y. Paper used for writing and printing purposes. No. 164,166; July 18.
- International Welding Engineering Corporation, Chicago, Ill. Arc-welding metal electrodes. No. 162,011; July 18.
- Iten Biscuit Co., Clinton, Iowa. Soda crackers. No. 164,251; July 18.
- Jamro, Walter, Manchester, N. H. Electrically-operated theft-preventing device. No. 161,839; July 18.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

xvii

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Jemielita, Anthony, New York, N. Y. Electrical generators. No. 159,871; July 18.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, etc. No. 139,765; July 18.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, etc. No. 139,830; July 18.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, etc. No. 139,833; July 18.
- John L. Whiting-J. J. Adams Company, assignor to John L. Whiting-J. J. Adams Company, Boston, Mass. Brushes for painting, varnishing, cleaning, polishing, and sweeping. No. 140,420; July 18.
- Jones Bros. Garment Co., Dubuque, Iowa. Sleeping garments. No. 142,560; July 18.
- Jordan Marsh Company, Boston, Mass. Rotary sifters. No. 159,970; July 18.
- Jordan, N. W., Hampton, Va. Medicine used in treatment of piles, burns, and itch. No. 157,223; July 18.
- Journal Company, Incorporated, Detroit, Mich. Newspaper section. No. 161,629; July 18.
- Kabo Company, The, Chicago, Ill. Brassières and corsets. No. 159,468; July 18.
- Kandle, J. Harry, Elmer, N. J. Seed potatoes. No. 163,682; July 18.
- Karaffa, Andy, Johnstown, Pa. Medicine for rheumatism. No. 156,193; July 18.
- Keet & Rountree Dry Goods Company, Springfield, Mo. Overalls, work shirts, jumpers, duck coats, etc. No. 158,619; July 18.
- Kent Storage Company, Grand Rapids, Mich. Condensed milk and butter. No. 150,072; July 18.
- Klinger, F. W., and Langheim Co., Philadelphia, Pa. Fishing-fly boxes. No. 164,170; July 18.
- Komo Chemical Company, Philadelphia, Pa. Fly liquids, roach powders, liquid sprays. No. 160,497; July 18.
- Kro-Ko Corporation, The. (See Gilpin, Donald N.)
- Krumrein, John H., doing business as Petsy Manufacturing Company, Baltimore, Md. Hair restorer. No. 160,141; July 18.
- Ladyfair Hosiery and Underwear Co. Inc., New York, N. Y. Women's hosiery made of knitted and woven fabrics and underwear. No. 157,276; July 18.
- Lane, Arthur E., Lumber Corporation, New York, N. Y. Wood shingles. No. 163,155; July 18.
- Lange, H. T., Co., The, Eau Claire, Wis. Coffee. No. 158,392; July 18.
- Larkin, John C., New York, N. Y. Hosiery. No. 155,895; July 18.
- Lawrenceburg Overall Mfg. Co., Lawrenceburg, Ind. Overalls, jackets, and work shirts. No. 158,876; July 18.
- Le Francis Cigar Company, Cambridge, Mass. Cigars. No. 161,007; July 18.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Paper and envelopes. No. 164,327; July 18.
- Linder Bros., Scranton, Pa. Ladies' coats and suits for outer wear. No. 151,879; July 18.
- Logan Iron & Steel Company, Philadelphia, Pa. Iron and steel bar metal. No. 156,452; July 18.
- Louisville Furnishing Goods Co., Louisville, Ky. Boys' overalls and men's work shirts. No. 159,363; July 18.
- Loyd Wireless Telephone Corporation, Dover, Del. Wireless transmitting and receiving apparatus. No. 161,783; July 18.
- Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 155,821; July 18.
- Mann, William, Company, Philadelphia, Pa. Checks, check-book cases, check-book covers, safety paper. No. 163,280; July 18.
- Mansfield James F., New York, N. Y. Watches and clocks. No. 157,379; July 18.
- Marion Foundry Corporation, Marion, Ind. Solid-fuel furnaces, grate frames, grate bars, etc. No. 128,555; July 18.
- Marmola Company, Detroit, Mich. Laxatives. No. 153,357; July 18.
- Marquette Cement Manufacturing Co., Chicago, Ill. Portland cement. No. 161,846; July 18.
- Marret, Bonnin, Lebel & Guieu, Paris, France. Alloys for use in the manufacture of jewelry and jewelers' goods. No. 161,329; July 18.
- Marshall Field & Company, Chicago, Ill. Alarm clocks. No. 161,537; July 18.
- Masco Drug Company, doing business as Masco Laboratories, Boston, Mass. Chemicals, medicines, and pharmaceutical preparations. No. 151,186; July 18.
- Masco Laboratories. (See Masco Drug Company.)
- Massage Laboratory. (See Message, Wanda.)
- Master Chemical Co., Columbus Junction, Iowa. Embalming fluid. No. 162,187; July 18.
- Meier & Frank Co., Portland, Oreg. Fish hooks and files. No. 165,401; July 18.
- Mell, Abraham, New York, N. Y. Hair tonic. No. 163,937; July 18.
- Menter Co. Inc., The, New York, N. Y. Coats, vests, trousers, and overcoats. No. 159,163; July 18.
- Message, Wanda, doing business as Massage Laboratory, Chicago, Ill. Medicinal bath compound for skin diseases and rheumatic pains. No. 159,276; July 18.
- Metadier, Paul, Tours, France. Analgesic tablets for headache, neuralgia, rheumatism, grippe, etc. No. 161,633; July 18.
- Mi Chemical Co. (See Roesch, Anton.)
- Mid-West Manufacturing Company, Minneapolis, Minn. Burnishing compound. No. 162,840; July 18.
- Miller & Kent, Bradford, Pa. Puzzle. No. 165,298; July 18.
- Miller, Edwin H., New York, N. Y. Clothespins. No. 147,886; July 18.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Men's outer shirts. No. 158,687; July 18.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of same, all in the piece. Nos. 164,061-2; July 18.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk, all in the piece. No. 164,063; July 18.
- Miller Traction Tread Company, Chicago, Ill. Tractors and parts thereof. No. 158,934; July 18.
- Milliken, Foster, New York, N. Y. Electric street signaling lamps. No. 161,893; July 18.
- Milton, Michael, doing business as Milton Paper Company, New York, N. Y. Writing paper. No. 122,018; July 18.
- Milton Paper Company. (See Milton, Michael.)
- Mission Bead Company, Los Angeles, Calif. Writing ink. No. 160,071.
- Moore Pen Company, The, Boston, Mass. Fountain pens and lead pencils. No. 160,827; July 18.
- Morris, Harry S., New York, N. Y. Ladies' hats. No. 150,456; July 18.
- Morris, Mann & Reilly, Inc., Chicago, Ill. Hair nets. No. 164,113; July 18.
- Mulhens & Kropff Incorporated, New York, N. Y. Toilet soaps. No. 163,228; July 18.
- Muller and Phipps (Asia) Limited, New York, N. Y. Carriage gongs. No. 143,374; July 18.
- National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 148,509; July 18.
- National Aniline & Chemical Company, Incorporated, New York, N. Y. Coal-tar chemicals or intermediates, rubber accelerators or catalysts, rubber compounding ingredients, and flotation agents. Nos. 161,655-9; July 18.
- National Blank Book Co., Holyoke, Mass. Loose-leaf binders and bound blank books and indexes. No. 162,260; July 18.
- National Metal Ware Co., Inc., Brooklyn, N. Y. Kitchen utensils of aluminum. No. 123,657; July 18.
- Nelscraft, Inc., New York, N. Y. Tailored waists. No. 157,001; July 18.
- Nelson's, Hugh, Columbia Carpet Mills, Philadelphia, Pa. Axminster rugs. No. 163,820; July 18.
- New England Commercial Co., New York, N. Y. Cotton piece goods. No. 161,505; July 18.
- Norris Bros. Inc., Robinson, Ill. Balls and seats and drops for oil-well valves. No. 160,623; July 18.
- Northern Jobbing Company, Chicago, Ill. Lye. No. 162,309; July 18.
- Nutt, Norman W., Trenton, N. J. Electric-light sockets, switches, plugs, etc. No. 154,612; July 18.
- Oulte Belt Dressing Co. (See Ryan, Frank.)
- O'Rourke, Frank J., Whitestone, N. Y. Medicines and tonics for colds, grippe, or malarial face creams or lotions, liniments. No. 156,543; July 18.
- Pacific Chemical Company, Los Angeles, Calif. Hand soap. No. 162,767; July 18.
- Page-Lewis Arms Company, Chicopee Falls, Mass. Rifles. No. 161,790; July 18.
- Parisienne Flapper Parasol Company, Mount Vernon, Ind. Novelty parasols. No. 163,697; July 18.
- Parsons & Baker Co., The, Phoenixville, Pa. Ladies' underwear. No. 159,218; July 18.
- Perfect Garment Co., Baltimore, Md. Middy blouses. No. 158,252; July 18.
- Peterson, George G., East Providence, R. I. Ice-cream cabinets. No. 164,556; July 18.
- Petsy Manufacturing Company. (See Krumrein, John H.)
- Philpsborn's, Inc., Chicago, Ill. Silk taffetas and satin messalines in the piece. No. 163,893; July 18.
- Pioneer Instrument Company, Brooklyn, N. Y. Compasses, banking indicators, air-distance recorders, Pitot tubes, etc. No. 138,651; July 18.
- Primrose Silk Stores, Inc., New York, N. Y. Silks in the piece. No. 160,971; July 18.
- Puritan Drug Mfg. Co., The, Columbus, Ohio. Writing inks. No. 146,654; July 18.
- Radio Instrument Company. (See Daniel, Brent.)
- Radzevich, Joseph, Waterbury, Conn. Healing salve. No. 161,647; July 18.
- Railway and Mine Supply Company, Kincaid, Ill. Cars and roller-bearing trucks, motor and horse drawn, and wheels and axles. No. 160,975; July 18.
- Railway Lock-Spike Company, Atlanta, Ga. Railway tie plates. No. 160,207; July 18.

- Reeves Coal and Dock Co., Minneapolis, Minn. Coal. No. 164,789; July 18.
- Reliance Gauge Column Company, The, Cleveland, Ohio. Steam-boller fittings and furnishings. No. 137,269; July 18.
- Rieser Company, The, New York, N. Y. Hair nets. No. 163,178; July 18.
- Rieser Company, The, New York, N. Y. Hair nets. No. 163,181; July 18.
- Roesch, Anton, doing business as Mi Chemical Co., Chicago, Ill. Antiseptic healing oil. No. 160,261; July 18.
- Rogers, Lunt & Bowlen Company, Greenfield, Mass. Babies' and children's tableware, brushes, lockets, etc. No. 146,734; July 18.
- Roller Printing and Paper Co., The, Canton, Ohio. Blank paper and envelopes, paper tablets, shipping labels, etc. No. 160,206; July 18.
- Royal Exterminating Products, Inc., New York, N. Y. Insect exterminators. No. 156,296; July 18.
- Royal Lemon Products Co., St. Paul, Minn. Washing powders. No. 163,414; July 18.
- Russell, Herbert S., Pembroke, Mass. Phonograph-record discs. No. 154,286; July 18.
- Rutland Fire Clay Co., Rutland, Vt. Liquid stove polish, metal polish, enamel cleaner, and waste-pipe cleaner. No. 162,452; July 18.
- Ryan, Frank, trading as Oriole Belt Dressing Co., Baltimore, Md. Belt dressing. No. 161,749; July 18.
- Salisbury, W. H., & Company, Incorporated, Chicago, Ill. Rubber tiling for floors. No. 160,157; July 18.
- Salomon & Weiner, Inc., New York, N. Y. Unmanufactured fur. No. 162,857; July 18.
- Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Women's, children's, and infants' coats, cloaks, wraps, capes, suits, etc. No. 159,116; July 18.
- Sandow Tool Co., U. S. A., New York, N. Y. Metal shoe shanks. No. 150,709; July 18.
- Saunders, James R., Chicago, Ill. Soap. No. 162,359; July 18.
- Scovil, Cora L., New York, N. Y. Dolls. No. 164,722; July 18.
- Scully Brothers & Co., Inc., New York, N. Y. Ladies' trimmed hats. No. 156,759; July 18.
- Servicised Products Company. (See Fischer, Albert C.)
- Shackman, B., & Co., New York, N. Y. Snapping mottoes. No. 164,121; July 18.
- Shackman, B., & Co., New York, N. Y. Snapping mottoes. No. 164,124; July 18.
- Sidenberg, G., & Co., New York, N. Y. Laces and nets in the piece. No. 152,934; July 18.
- Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 157,961; July 18.
- Solacene. (See Tizzard, Samuel B.)
- Solar Electric Company, Chicago, Ill. Soap. No. 159,535; July 18.
- Spalding, A. G., & Bros., New York, N. Y. Golf balls. No. 162,959; July 18.
- Stack Heater Company, Boston, Mass. Temperature-controlled valves, relief valves, vacuum valves, and pipe fittings. No. 155,276; July 18.
- Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 161,803; July 18.
- Standard Crayon Manufacturing Co., Danvers, Mass. Wax and chalk crayons. No. 161,857; July 18.
- Standard Oil Company of New York, N. Y. Crayons. No. 162,903; July 18.
- Stanley, John T., Co. Inc., New York, N. Y. Oil soap. No. 161,654; July 18.
- Staso Laminated Slate Company, Chicago, Ill. Crushed slate for use as a surfacing grit for prepared roofings. No. 139,722; July 18.
- Storm Manufacturing Company, Minneapolis, Minn. Boring tools and machines, reamers, milling machines, etc. No. 143,839; July 18.
- Stoughton, Minnie L., Camden, N. J. Book covers. No. 159,222; July 18.
- Stronghart Company, Chicago, Ill. Small portable savings banks and safes. No. 129,479; July 18.
- Suess, J. Paul, Williamsport, Pa. Remedy for chapped hands, salt rheum, chafing, and sunburn. No. 160,084; July 18.
- Tell-Stop Appliance Company, The, Cleveland, Ohio. Electric stop and direction signal lamp systems for vehicles. No. 155,525; July 18.
- Tennessee Eastman Corporation, Kingsport, Tenn. Charcoal not specially prepared for decolorizing or deodorizing. No. 160,518; July 18.
- Thomas Moulding Brick Company, Chicago, Ill. Mastic flooring. No. 163,903; July 18.
- Tizzard, Samuel B., doing business as Solacene, Los Angeles, Calif. Liniment for external application for dressing wounds, scalds, burns, etc. No. 160,266; July 18.
- Trancella Company. (See Bendick, Sidney S.)
- Tribune Company, The, Chicago, Ill. Sheet paper for printing and writing. No. 157,592; July 18.
- Turner & Stroock, Inc., New York, N. Y. Cloth made of artificial silk. No. 163,298; July 18.
- Turner & Walls, New York, N. Y. Shirts in the piece woven from silk, cotton, or mixture of the same. No. 163,297; July 18.
- Union Drop Forge Company, Chicago, Ill. Drop forgings. No. 156,938; July 18.
- United Turkey Red Company, Limited, Glasgow, Scotland. Cotton table covers, handkerchiefs, doilies, etc. No. 156,767; July 18.
- Utica Infant Wear Corporation, Utica, N. Y. Diapers. No. 159,637; July 18.
- Van De Carr Paper Company, Stockport, N. Y. Paper for wrapping and packing purposes. No. 159,191; July 18.
- Van Lopik, Garrett P., doing business as G. P. Van Lopik & Co., Grand Haven, Mich. Misses' and children's dresses. No. 159,670; July 18.
- Velo y Filgueira, Angel, Habana, Cuba. Mineral water. No. 140,085; July 18.
- Victor-Monaghan Company, Greenville, S. C. Cotton piece goods. No. 163,953; July 18.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus, chemical-control equipment for water purification, etc. No. 149,878; July 18.
- Wallace & Tiernan Co., Inc., Newark, N. J. Chlorine-control apparatus, chemical-control equipments for water purification, etc. No. 149,880; July 18.
- Warren Laboratories. (See Enell, William H.)
- Washburn & Granger, Inc., New York, N. Y. Hoists. No. 155,582; July 18.
- Wasserman & Goldsmith, New York, N. Y. Hose, ladies' and children's vests and pants, union suits, etc. No. 159,131; July 18.
- Weil, H. S., Co., The, Cleveland, Ohio. Aprons and house dresses. No. 152,528; July 18.
- Western Garment Mfg. Company, Salt Lake City, Utah. Ladies' coats, suits, aprons, and dresses, bath robes, overalls, etc. No. 159,737; July 18.
- West, Fred, St. Louis, Mo. Table salt. No. 160,452; July 18.
- West-Laboratorium Gesellschaft mit beschränkter Haftung, Hamburg-Billbrook, Germany. Antiseptic preparation whose scientific name is jadsulfonortho-oxy-benzolpyridin. No. 153,494; July 18.
- White, Ray E., LaFargeville, N. Y. Ointment for treatment of piles, cuts, sores, burns, frostbites, etc. No. 160,735; July 18.
- Wichmann, Henry, Brooklyn, N. Y. Plugs for repairing metal bodies, plates, boilers, tanks, etc. No. 156,320; July 18.
- Wilder, Mae E., Rochester, N. Y. Face cream. No. 162,225; July 18.
- Wile, E. J., & Co., New York, N. Y. Coats and suits. No. 156,874; July 18.
- Wilson Pile Cure Co., Wilson, N. C. Medicinal compound for the treatment of piles, sore feet, and sores. No. 160,839; July 18.
- Wilson Utensil Company, Dayton, Ohio. Aluminum cooking utensils. No. 157,462; July 18.
- Witherow Steel Company, Pittsburgh, Pa. Rolled iron and steel blanks and shapes. Nos. 162,366-7; July 18.
- Wolf, E. A. Paul, Co., New York, N. Y. Loose-leaf devices. No. 162,227; July 18.
- Worcester Electric Supply Co., Worcester, Mass. Bicycles. No. 162,080; July 18.
- Wright Bindley & Gell Limited, Sheffield and Birmingham, England. Umbrella ribs and stretchers of steel or iron. No. 163,725; July 18.
- Zollinger and Schroth, Inc., New York, N. Y. Silk piece goods. No. 163,490; July 18.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Abrasive elements, Staggered-tooth cutter for dressing. F. C. Brandenburg. No. 1,423,075; July 18.
- Accelerator, Foot. H. V. Souders and J. M. Frost. No. 1,423,489; July 18.
- Acid, Manufacture of 9,10-dihalogenanthracene- β -monosulphonic. K. Schirmacher. No. 1,422,889; July 18.
- Addressing-machine impression mechanism. C. Chisholm. No. 1,423,189; July 18.
- Aeroplane. C. D. McNamara. No. 1,423,131; July 18.
- Air-brake handle. W. E. Cady. No. 1,423,185; July 18.
- Air cleaner. H. H. Garner. No. 1,423,412; July 18.
- Aircraft, Landing light or flare for attaching to. H. E. S. Holt. No. 1,423,326; July 18.
- Airplane-landing director. B. S. Cameron. No. 1,429,922; July 18.
- Alarm: See—
Water alarm.
- Alloy and producing same. C. A. Laise. No. 1,423,338; July 18.
- Aminoalcohols, Preparing optically active aromatic A. Gams and E. Wybert. No. 1,423,101; July 18.
- Amusement device. E. U. Jaques. No. 1,423,428; July 18.
- Angle bar and nut lock. J. J. Bowman. No. 1,423,394; July 18.
- Angle of allowance in front on attacking a moving target, Telescopic device for determining the. H. Techel. No. 1,423,168; July 18.
- Animal trap. C. C. Rockwell. No. 1,423,261; July 18.
- Animal trap. A. Skubinski. No. 1,422,894; July 18.
- Antiskid-chain-tightening device. P. E. Fellows. No. 1,423,202; July 18.
- Arsenical compounds, Manufacture of. K. B. Edwards. No. 1,422,945; July 18.
- Ash hopper. A. P. Strong. No. 1,422,900; July 18.
- Ash pan. C. F. Milholen. No. 1,423,352; July 18.
- Ash tray and receptacle. S. Meyer. No. 1,422,879; July 18.
- Asbestos-cement product and forming the same. R. V. Mattison. No. 1,423,000; July 18.
- Auto theft protection. A. Kendecky. No. 1,423,432; July 18.
- Automobile and other wheels, Rim and tire for. I. Benjamins. No. 1,422,818; July 18.
- Automobile direction signal. T. S. Opheim. No. 1,423,249; July 18.
- Automobile direction signal. O. M. West. No. 1,423,379; July 18.
- Automobile driver's seat, Ventilated. D. Benson and G. K. Bruce. No. 1,422,915; July 18.
- Automobile fender. H. Caplan. No. 1,423,187; July 18.
- Automobile frame. A. Melidona. No. 1,423,240; July 18.
- Automobile, Gasoline-electric. F. G. Le Merle, M. J. Ullman, and J. E. Barry. No. 1,423,124; July 18.
- Automobile intention-signaling device. E. T. Gibson. No. 1,422,960; July 18.
- Automobile lock. D. C. Smith. No. 1,423,269; July 18.
- Automobile side curtain. C. H. and L. Gillig. No. 1,423,210; July 18.
- Automobile wheel rim. G. T. Nichols. No. 1,423,354; July 18.
- Automobiles, Auxiliary gasoline tank for. D. Sewell. No. 1,423,158; July 18.
- Automobiles, Transmission gear for. G. O. Howeth. No. 1,423,426; July 18.
- Awning, Windshield. E. H. Hutcheson. No. 1,423,116; July 18.
- Ax, Brush and chopping. O. E. Olesberg. No. 1,423,140; July 18.
- Axis aileron, Transverse. J. P. Tarbox. No. 1,423,166; July 18.
- Axis aileron, Vertical. J. P. Tarbox. No. 1,423,167; July 18.
- Backband. R. W. Paul. No. 1,423,144; July 18.
- Bar: See—
Tow and push bar. Reinforcing bar.
- Barrel. J. R. Raible. No. 1,423,254; July 18.
- Basket. C. Halaska. No. 1,423,419; July 18.
- Batter, Mechanical. C. H. Muckenhirn. No. 1,423,009; July 18.
- Battery filler. A. A. Boston. No. 1,423,393; July 18.
- Bearing. P. A. E. Armstrong. No. 1,422,812; July 18.
- Bearing construction for fans. L. Schwitzer. No. 1,423,265; July 18.
- Bearing, Disk. J. C. Bohmker. No. 1,422,918; July 18.
- Bearing, Roller. W. D. Burns. No. 1,423,304; July 18.
- Bearing, Self-adjusting. H. Glass. No. 1,422,961; July 18.
- Bed bottom. S. L. Arnold. No. 1,423,065; July 18.
- Beds, Attachment for. E. B. Down. No. 1,422,939; July 18.
- Bedspring attachment. R. B. Gallagher and R. C. Young. No. 1,423,100; July 18.
- Beehive comb frame. D. S. Hall. No. 1,423,212; July 18.
- Beet topper. S. C. Warner. No. 1,423,374; July 18.
- Belt and the like. K. Matheus. No. 1,422,999; July 18.
- Belt, Sanitary. D. Morner. No. 1,423,353; July 18.
- Binder. W. P. Pitt. No. 1,423,016; July 18.
- Binder and stand therefor, Loose-leaf. C. R. Fargo and P. O. Unger. No. 1,422,950; July 18.
- Binder, Temporary. F. D. Pitt and G. W. Newman. No. 1,423,015; July 18.
- Blade shroud, Interlocking. J. E. Snyder. No. 1,423,466; July 18.
- Blanks, Folder for prescription. R. B. and L. Taylor. No. 1,423,473; July 18.
- Blast furnaces and the like, Sealing of cracks in the lining of. T. Kennan. No. 1,423,332; July 18.
- Blower. G. Clements. No. 1,423,190; July 18.
- Bobbin winder. P. F. Douglas. No. 1,423,313; July 18.
- Body member, Artificial. R. F. Armstrong. No. 1,423,296; July 18.
- Boiler: See—
Water-tube boiler.
- Boilers, Apparatus for the liquid-fuel firing of steam. W. M. Burdon. No. 1,423,183; July 18.
- Book and savings bank combined, Bank. E. D. Smith. No. 1,423,270; July 18.
- Book-cover-attaching means. F. D. Pitt. No. 1,423,017; July 18.
- Book, Savings and insurance account. E. J. House. No. 1,423,114; July 18.
- Books, Cover-attaching means for. W. P. Pitt. No. 1,423,018; July 18.
- Books, Stiffener for folding. W. O. Lynch. No. 1,423,129; July 18.
- Boot and shoe. E. B. Hafertepen. No. 1,422,968; July 18.
- Boot top. C. Tweedie. (Reissue). No. 15,416; July 18.
- Bottle cap. S. Hansen. Nos. 1,423,105-6; July 18.
- Bottle cap. O. Kampfe. No. 1,423,431; July 18.
- Bottle cap, Poison-. W. H. Armstrong. No. 1,423,174; July 18.
- Bottle, Nursing. V. I. Sims. No. 1,423,038; July 18.
- Bottle-washing apparatus, Label separator and remover for. C. H. Loew and J. R. Gruetter. No. 1,423,342; July 18.
- Bottles, Portable hand tool for capping, sealing, and unsealing. O. A. Hanford. No. 1,422,970; July 18.
- Bottles, Stopper for hot-water. A. B. Shaw. Nos. 1,423,463-4; July 18.
- Box: See—
Collapsible box. Phonograph sound box.
Fire box. Vanity box.
- Box and attachment therefor. E. C. J. Lloyd. No. 1,423,442; July 18.
- Boxes, cans, and other articles, Machine for washing. G. S. Blakeslee. No. 1,423,300; July 18.
- Boxes, Tool for closing wire-bound. J. H. Greenstreet. No. 1,422,965; July 18.
- Bracket: See—
Lunette bracket. Printometer bracket.
- Brake beam. C. F. Huntoon. No. 1,422,863; July 18.
- Brake-rod adjuster. R. C. McArthur. No. 1,423,235; July 18.
- Brick. J. E. Evans. No. 1,422,949; July 18.
- Broiling and toasting food, Kitchen utensil for. A. Condy. No. 1,422,835; July 18.
- Broom holder. F. H. Steinheiser. No. 1,423,043; July 18.
- Brushes or brooms, Removable-handle mechanism for. W. and E. Prestwich. No. 1,423,151; July 18.
- Bucket. W. L. Thompson. No. 1,423,047; July 18.
- Bucket, Well. J. M. Holliday. No. 1,423,424; July 18.
- Buckets, Pin stop for dredge. M. L. Summers. No. 1,423,367; July 18.
- Buckle, Belt. W. A. Hurst. No. 1,423,218; July 18.
- Budding implement. V. Calandra. No. 1,423,491; July 18.
- Building block and wall construction. W. C. Bartelt. No. 1,422,814; July 18.
- Building construction. J. T. Simpson. No. 1,423,161; July 18.
- Building construction. F. Watt. No. 1,423,375; July 18.
- Building, Wooden. J. G. Stadelman. No. 1,423,468; July 18.
- Buildings and other structures, Staging for. S. S. Colt. No. 1,423,308; July 18.
- Bulbs, Device for use in coloring. H. L. Greenbaum. No. 1,422,964; July 18.

- Burner: *See*—
 Fuel burner. Oil burner.
 Burnishing machine. L. J. Van Guepen. No. 1,423,051; July 18.
 Burnishing tool. L. J. Van Guepen. No. 1,423,052; July 18.
 Button, Cuff. M. W. Severance. No. 1,423,267; July 18.
 Button remover, Shoe. O. S. Eller. No. 1,422,947; July 18.
 Cabbage cutter. G. Dorcheff alias G. Theodore. No. 1,422,937; July 18.
 Cable clamp. D. M. Salter and S. Robichaux. No. 1,423,263; July 18.
 Calculator. H. S. Edmondson. No. 1,422,944; July 18.
 Cameras, Aerial mounting for. J. Sharpe. No. 1,423,364; July 18.
 Can: *See*—
 Ice can. Oil can.
 Can-righting machine. S. Eberly. No. 1,422,943; July 18.
 Cane mill. H. Hurter. No. 1,422,979; July 18.
 Canvas, Apparatus for weaving bicycle and auto. A. W. Jansen. No. 1,423,427; July 18.
 Car, Charging. F. Flecht. No. 1,423,314; July 18.
 Car door. G. Donahue. No. 1,423,200; July 18.
 Car, Dumping. P. Krüger. No. 1,423,121; July 18.
 Car end, Corrugated-sheet-metal. W. P. Murphy. No. 1,422,881; July 18.
 Car-end wall structure, Reinforced. C. D. Bonsall. No. 1,422,823; July 18.
 Car safety gate. J. A. Brooks. No. 1,423,303; July 18.
 Car water-closet, Railway. W. Frank. No. 1,422,953; July 18.
 Car wheel. T. W. Williams. No. 1,423,381; July 18.
 Cars, Leading truck for railway motor. A. F. Masury and L. C. Josephs, Jr. No. 1,423,238; July 18.
 Carbon black and producing same. A. S. Cooper. No. 1,423,193; July 18.
 Carbon, Purifying. V. Lenher and F. M. Dorsey. No. 1,423,231; July 18.
 Carburetors, Attachment for. L. F. Lieser. No. 1,422,871; July 18.
 Carburetors, Heating coil for. E. M. Soreng. No. 1,422,896; July 18.
 Card and sign or poster painter's workbench. H. R. Ellis. No. 1,423,201; July 18.
 Card holder. A. Anderson. No. 1,423,294; July 18.
 Card holder, Index. W. Hertzberg. No. 1,422,973; July 18.
 Card index. J. C. Russell. Nos. 1,423,029-30; July 18.
 Card repeating and transposing machine, Jacquard. L. Herzog. Nos. 1,423,110-11; July 18.
 Cards, Manufacturing design. H. Ottolenghi-Wedekind. No. 1,422,885; July 18.
 Carpet Sweeper, Suction. J. M. Spangler. (Reissue.) No. 15,414; July 18.
 Carriage-operating mechanism. W. W. Lasker. No. 1,423,437; July 18.
 Carrier: *See*—
 Lumber carrier. Type carrier.
 Sign carrier.
 Carton-handling apparatus. J. L. Ferguson. No. 1,423,097; July 18.
 Case: *See*—
 Cigarette case. Vanity case.
 Casting machine, Line-slug. S. A. Bisey. No. 1,423,388; July 18.
 Casting machine, Strip. J. S. Thompson. No. 1,423,474; July 18.
 Centrifugal machine. S. H. Hall. No. 1,422,852; July 18.
 Centrifugal machine. C. H. Hapgood. No. 1,422,856; July 18.
 Centrifugal separator or amalgamator. R. Thayer. No. 1,423,169; July 18.
 Chain link. E. W. O. Stoudel. No. 1,423,273; July 18.
 Chain shackle and making the same. E. Y. Moore. No. 1,423,244; July 18.
 Chair base. R. K. Dawson. No. 1,422,933; July 18.
 Check protector. C. C. McCombs. No. 1,423,236; July 18.
 Chlorinating gaseous hydrocarbons and recovering products therefrom. G. O. Curme, Jr. No. 1,422,838; July 18.
 Cigarette case. S. Holtzelaw. No. 1,422,975; July 18.
 Cinematographic exhibition, Taking an orchestra conductor for. E. Wolff. No. 1,422,909; July 18.
 Clamp: *See*—
 Cable clamp. Forge clamp.
 Clock escapement. W. J. Fawver. No. 1,423,410; July 18.
 Clutch, Friction. J. H. Giauque and C. Haesler. No. 1,423,413; July 18.
 Clutch mechanism. J. A. Heany. No. 1,423,108; July 18.
 Clutch-operating mechanism. E. D. Roberts. No. 1,423,023; July 18.
 Coal in mines, Extracting. H. Mack. No. 1,422,874; July 18.
 Coating composition, Liquid. C. D. Hocker. No. 1,422,861; July 18.
 Collapsible box. E. M. Averill. No. 1,422,912; July 18.
 Color effects, Producing. A. S. Cushman. No. 1,423,089; July 18.
 Combination lock. C. J. Anderson and W. H. Van Dyke. No. 1,423,384; July 18.
 Comminuted material, Apparatus for handling. A. G. McGregor. No. 1,422,997; July 18.
 Compass scale. W. V. Pogue. No. 1,423,019; July 18.
 Compensating device. J. Gumber and F. F. Fearheiley. No. 1,423,480; July 18.
 Computing device. J. G. Clark. No. 1,423,493; July 18.
 Concrete pipes, Form for. F. H. Weaver. No. 1,423,284; July 18.
 Condiment dispenser or container. C. H. Haeseler. No. 1,423,322; July 18.
 Confetti bomb. J. Kyriazopoulos. No. 1,423,122; July 18.
 Container-arranging apparatus. S. Eberly. No. 1,422,942; July 18.
 Container with removable locking cover. G. H. Schwarz and M. Vintschger. No. 1,423,157; July 18.
 Containers, Device for operating on. J. L. Ferguson. No. 1,423,098; July 18.
 Conveyor. J. L. Ferguson. No. 1,423,095; July 18.
 Cooking vessels. Ventilating knob for. M. F. Dean. No. 1,422,935; July 18.
 Corn-husking hook. A. D. Wagner. No. 1,422,906; July 18.
 Cotton picker. H. W. Taylor. No. 1,423,472; July 18.
 Counter. L. E. Jones. No. 1,423,430; July 18.
 Coupling. L. W. Kruse. No. 1,422,991; July 18.
 Cultivator. R. G. Isley. No. 1,422,982; July 18.
 Cultivator, Power. E. A. Johnston and C. W. Mott. No. 1,422,985; July 18.
 Cup: *See*—
 Oil cup.
 Curved surfaces, Method and apparatus for finishing. H. Wesson. No. 1,423,378; July 18.
 Cut-off, Pressure-controlled. M. L. Davis and G. W. Cook. No. 1,423,403; July 18.
 Cutout, Automatic. B. L. Campbell. No. 1,422,923; July 18.
 Cutter: *See*—
 Cabbage cutter.
 Cutting tool. R. Kienzl. No. 1,422,988; July 18.
 Deaf persons, Acoustical aid for. J. P. Maxfield. No. 1,422,877; July 18.
 Dehydrator. W. O. Cardin. No. 1,423,188; July 18.
 Denial fastening for removable bridges and partial plates. W. L. Withers. No. 1,423,288; July 18.
 Depth-indicating device. H. W. King. No. 1,423,118; July 18.
 Depth-indicating device. H. W. King. No. 1,423,223; July 18.
 Derailer. J. H. Hammontre. No. 1,423,495; July 18.
 Derrick. G. F. Watts. No. 1,423,376; July 18.
 Detachable handle. B. N. Donley. No. 1,423,406; July 18.
 Diaphragm, Iris. R. Klein. No. 1,423,224; July 18.
 Direction indicator. W. F. Freeman and V. I. Cilley. No. 1,422,955; July 18.
 Disk wheel. J. F. Wilmot. No. 1,423,060; July 18.
 Dispensing apparatus. E. P. Baker. No. 1,422,913; July 18.
 Dispensing device. A. Alexay. No. 1,423,063; July 18.
 Display apparatus, Changing-view. H. M. Russell. No. 1,423,262; July 18.
 Display panel. W. R. Minnick. No. 1,423,003; July 18.
 Display rack. J. F. Gorman. No. 1,423,417; July 18.
 Display stand. J. Kudner. No. 1,423,226; July 18.
 Display device. G. M. Franks. No. 1,422,845; July 18.
 Distillation, Low-temperature. A. C. Michie and E. G. Weeks. No. 1,423,134; July 18.
 Doll, Hula. D. Zaiden. No. 1,423,383; July 18.
 Doll, Shimmy. S. Haskell. No. 1,422,855; July 18.
 Doll, Walking. D. Zaiden. No. 1,423,382; July 18.
 Door-controlling device. H. W. Crane. No. 1,422,931; July 18.
 Door, Grain. R. E. Smith. No. 1,423,040; July 18.
 Door lock. H. B. McCarty. No. 1,423,484; July 18.
 Doors, Lock for sliding. J. C. Fritts. No. 1,422,846; July 18.
 Doors of self-discharging receptacles, Locking mechanism for the. P. Krüger. No. 1,423,120; July 18.
 Doors, Self-closing and controlling means for. B. Spitzfaden. No. 1,423,467; July 18.
 Dough-dividing machine. T. S. Vierow. No. 1,423,371; July 18.
 Draft regulators, Mounting for. F. C. Kasch and G. F. Neff. No. 1,422,868; July 18.
 Drier. E. B. Ayres and T. H. Rhoads. No. 1,423,298; July 18.
 Drier or oven. F. Beers and H. L. Powell. No. 1,422,817; July 18.
 Drive mechanism, Power control for. C. W. Anderson. No. 1,422,809; July 18.
 Drive mechanism, Ratchet clutch for. C. W. Anderson. No. 1,423,172; July 18.
 Duplicator. T. Danheiser and F. F. Fecher. No. 1,422,934; July 18.
 Dyes, Cotton. H. Jordan. No. 1,422,866; July 18.
 Egg-preserving compound. E. Victorine. No. 1,423,053; July 18.
 Eggs, Apparatus for washing and cleaning. C. J. Williamson. No. 1,423,059; July 18.
 Electric cables, Terminal box for. C. R. Young and H. N. Van Deusen. No. 1,422,910; July 18.
 Electric connector. E. A. Knew. No. 1,422,992; July 18.
 Electric controller. N. D. Levin. No. 1,423,126; July 18.
 Electric coupling. C. H. Tomlinson. No. 1,422,905; July 18.
 Electric heating appliances, Automatic switch for. B. G. C. Stephens. No. 1,422,898; July 18.
 Electric switch. H. Catlin. No. 1,423,306; July 18.
 Electric switch. C. C. Stirling. No. 1,423,274; July 18.
 Electrical conduit system. E. H. Curtis. No. 1,423,309; July 18.

- Electrical connector. E. Straszky. No. 1,423,045; July 18.
- Electrical generating system. H. A. Harrington. No. 1,423,107; July 18.
- Electrically-heated apparatus. R. F. Wherland. No. 1,423,380; July 18.
- Electrodes. Manufacturing. H. Bardt. No. 1,423,071; July 18.
- Elevating device. F. Beers and H. L. Powell. No. 1,422,816; July 18.
- Embroidery machines. Thread-changing device in. G. Sieber. No. 1,423,160; July 18.
- Engine: *See*—
Internal-combustion engine.
Oil engine.
- Engines, Fuel adapted for use in internal-combustion. M. C. Whitaker. No. 1,423,058; July 18.
- Engines, Means for controlling the supply of combustible mixture to internal-combustion. G. Keith and W. A. Whatmough. No. 1,422,987; July 18.
- Engines, Priming and decarbonizing device for internal-combustion. F. D. Maltby. No. 1,422,998; July 18.
- Engines, Sparking plug for internal-combustion. S. Remus. No. 1,423,152; July 18.
- Engines, Supplying a combustible mixture to internal-combustion. W. H. C. Higgins, Jr. No. 1,423,482; July 18.
- Engraving machine. G. R. Worner. No. 1,423,289; July 18.
- Envelope-making machines, Drying blower for. A. E. Augustine. No. 1,423,297; July 18.
- Esters of dioxydiethyl sulphide and making same. G. Kränzelin and M. Corell. No. 1,422,869; July 18.
- Exercising device. L. C. Reeves and M. A. Webb, Jr. No. 1,422,888; July 18.
- Explosive material. C. J. S. Lundsgaard and K. T. Herbst. No. 1,423,233; July 18.
- Facing tool. J. A. Sharpnack. No. 1,423,462; July 18.
- Fan. F. L. McGahan. No. 1,423,348; July 18.
- Fastening device. L. Ottinger. (Reissue.) No. 15,412; July 18.
- Feeder and thrasher. Extension. C. C. Paster. No. 1,423,149; July 18.
- Fender: *See*—
Automobile fender. Vehicle fender.
- Fiber board. M. Chew. No. 1,423,081; July 18.
- Fiber board, Apparatus for producing. M. Chew. No. 1,423,082; July 18.
- Fiber board, Producing. M. Chew. No. 1,423,083; July 18.
- Fiber saver. A. Dežela. No. 1,423,199; July 18.
- Fibrous-plant-decorating machine. F. O'Neill, Jr. No. 1,423,357; July 18.
- Finger ring. E. C. Blaicher. No. 1,422,819; July 18.
- Finger-training device. W. Schmitt-Marcel. No. 1,423,033; July 18.
- Fire box. F. L. McGahan. Nos. 1,423,346-7; July 18.
- Fire escapes, Extensible ladder for. R. Glasser. No. 1,423,104; July 18.
- Firearm. J. D. Pedersen. No. 1,423,358; July 18.
- Fish lures, Controller for. C. M. Rodgers and A. W. Wenger. No. 1,423,025; July 18.
- Fish stringer. D. Fiske. No. 1,423,203; July 18.
- Floor coverings and the like, Strip for. M. Patterson. No. 1,423,143; July 18.
- Fluid gauge. J. G. Collison, J. W. Wright, H. M. Filbert, and W. Frank. No. 1,423,191; July 18.
- Foldable carton. E. Steudel. No. 1,423,272; July 18.
- Foot support. A. Roth. No. 1,423,456; July 18.
- Forge clamp. P. A. Leach. No. 1,423,123; July 18.
- Frame: *See*—
Beehive comb frame. Sewing-machine frame.
- Fruit-jar cover. W. R. Nipper. No. 1,422,883; July 18.
- Fruit seeder and slicer. G. Vafiades and J. Koukos. No. 1,423,490; July 18.
- Fuel. B. R. Tunison. No. 1,423,048; July 18.
- Fuel burner, Fluid. T. S. Derr. No. 1,423,312; July 18.
- Fuel burner, Gaseous. W. Ruff. No. 1,423,155; July 18.
- Fuel, Liquid. B. R. Tunison. No. 1,423,050; July 18.
- Fuel of liquid type. B. R. Tunison. No. 1,423,049; July 18.
- Fuel, Treating pulverized. R. E. H. Pomeroy. No. 1,423,150; July 18.
- Fuels, Carbureting liquid. O. P. Amend. No. 1,423,064; July 18.
- Furnace: *See*—
Pipeless furnace.
Steam boiler with forced-draft furnace.
- Furnace. W. F. Payne. No. 1,423,145; July 18.
- Furnace. J. Van Brunt. No. 1,423,281; July 18.
- Furnaces, Apparatus for feeding fuel to. V. Karycheff and P. E. Gagarine. No. 1,422,867; July 18.
- Furnaces, Gas burner for. C. L. Sharp. No. 1,422,891; July 18.
- Fuse emplacing and removing implement. H. B. Bush. No. 1,422,830; July 18.
- Gas generating and heating apparatus, Safety device for. W. G. Chausse. No. 1,423,080; July 18.
- Gas generator. P. Dorsey. No. 1,422,938; July 18.
- Gas meter. T. Horton. No. 1,423,217; July 18.
- Gasket. Screen. W. H. Betts. No. 1,422,916; July 18.
- Gate: *See*—
Car safety gate.
- Gate hinge. H. T. Hacker. No. 1,423,321; July 18.
- Gauge: *See*—
Fluid gauge. Screw gauge.
- Gauges, formed bars, profile pieces, etc., Manufacturing counter pieces to. K. Rosak. No. 1,423,154; July 18.
- Gear, Change-speed. A. Savary. No. 1,423,458; July 18.
- Gear-cutting machine. I. H. Wright. No. 1,423,062; July 18.
- Gear, Running. G. R. Richardson. No. 1,423,153; July 18.
- Gearing. H. Sieben. No. 1,423,037; July 18.
- Gearing, Magneto. C. B. Kirkham. No. 1,423,334; July 18.
- Gearing, Variable-speed. M. F. L. A. Aymard. No. 1,423,067; July 18.
- Generator: *See*—
Pressure generator.
- Glass-drawing machine, Sheet. O. M. Cox and C. C. Rose. No. 1,423,195; July 18.
- Glass tanks, Means for controlling discharge from. E. S. Hutton. No. 1,423,220; July 18.
- Glue mixing and preserving apparatus. E. B. Applegate and W. H. Yeomans. No. 1,422,811; July 18.
- Glycerin, Recovering. J. A. Steffens. No. 1,423,042; July 18.
- Golf clubs, Striker plate for. G. A. Lippincott. No. 1,423,341; July 18.
- Grain-grinding machine. J. K. Strachan. No. 1,423,275; July 18.
- Gramophones, Automatic stop for. O. O. Storle. No. 1,423,044; July 18.
- Groase cellar. W. F. Mitchell. No. 1,423,502; July 18.
- Grease cups, Automatic filler for. S. Hough. No. 1,422,978; July 18.
- Gun, Burglar. F. S. Jobson. No. 1,422,865; July 18.
- Gun, Dust. J. F. Lemons. No. 1,423,125; July 18.
- Gun sight, Luminous. J. S. Butler. No. 1,423,184; July 18.
- Hair-cutting appliance. S. Severson. No. 1,423,363; July 18.
- Handle: *See*—
Air-brake handle. Tool handle.
Detachable handle.
- Handle and crank, Combination. P. L. Streit. No. 1,423,469; July 18.
- Hanger. W. L. Rivers and G. B. Dixon. No. 1,423,455; July 18.
- Hay-rack lift. J. A. Johnson. No. 1,423,328; July 18.
- Hay stacker. E. J. Cantwell. No. 1,422,924; July 18.
- Headlight. T. W. Post. No. 1,423,253; July 18.
- Headlight for vehicles, Dirigible. R. A. Perry. No. 1,423,148; July 18.
- Heater: *See*—
Sand-pipe heater. Water heater.
- Heating system, Regulator for vapor. L. A. Cherry. No. 1,423,492; July 18.
- Heel or lift, Double-cushioned shoe. M. G. Hart. No. 1,422,854; July 18.
- Hinge, J. S. Moody. No. 1,423,004; July 18.
- Hinge, Adjustable. W. B. McDonald. No. 1,423,350; July 18.
- Hoisting apparatus. L. T. Tucker. No. 1,422,904; July 18.
- Holder. M. Glass. No. 1,423,415; July 18.
- Holes, Means for drilling polygonal. R. Bartholomäus. No. 1,423,072; July 18.
- Homogenizer. L. J. Phelps. No. 1,423,488; July 18.
- Homogenizer. E. M. White. No. 1,423,170; July 18.
- Hoods to articles, Machine for applying. T. G. McGirr. No. 1,423,237; July 18.
- Hook: *See*—
Corn-husking hook. Logging hook.
- Hopper-door mechanism. C. H. Williamson. No. 1,423,287; July 18.
- Hose protector. V. H. Fairless. No. 1,423,409; July 18.
- Humidifying air. P. de Clamecy. No. 1,422,839; July 18.
- Humidor. F. Oakford. No. 1,423,356; July 18.
- Hydrocarbon burner. C. E. Corado. No. 1,422,930; July 18.
- Ice can. H. G. Tallorday. No. 1,423,278; July 18.
- Ignition device, Make-and-break. M. Murray. No. 1,423,137; July 18.
- Indicator: *See*—
Direction indicator. Liquid-level indicator.
- Ink and making same. E. S. Garvey. No. 1,422,957; July 18.
- Ink, Invisible. C. F. Morse. No. 1,423,346; July 18.
- Intermittent-grip device. S. S. Morton. No. 1,423,007; July 18.
- Internal-combustion engine. W. D. Appel. No. 1,422,810; July 18.
- Internal-combustion engine. F. Birchbauer. No. 1,423,477; July 18.
- Internal-combustion engine. K. I. Crossley and W. L. Webb. Nos. 1,423,085-7; July 18.
- Internal-combustion engine. P. Dougall. No. 1,423,407; July 18.
- Internal-combustion motor. A. Behn and J. G. Schmitt. No. 1,423,073; July 18.
- Ironing board, stepladder, and house truck, Combined. H. C. Snook. No. 1,423,366; July 18.
- Ironing machine. W. E. Baker. No. 1,423,068; July 18.
- Journal boxes and producing the same, Cooling compound for hot. J. Q. Gill. No. 1,423,103; July 18.
- Key-carrying chain. B. Urich. No. 1,423,280; July 18.
- Key holder. G. R. Perry. No. 1,423,147; July 18.
- Kiln: *See*—
Pottery kiln.
- Kiln and process, Drying. M. L. Mueller. No. 1,423,136; July 18.

- Knitting machine. H. T. Ballard. No. 1,423,175; July 18.
 Laminated composite wheel. H. N. Atwood and G. B. Bains. 3d. No. 1,422,813; July 18.
 Lamp. A. A. Ketchum. No. 1,423,433; July 18.
 Lamp shade. M. Greitzer. No. 1,423,319; July 18.
 Lamp holder, Electric. E. C. Leachman. No. 1,423,228; July 18.
 Lamps, Holder for electric. J. F. King. No. 1,423,119; July 18.
 Lathes, Demountable headstock for. A. L. Ligon. No. 1,422,994; July 18.
 Laundry-tub cover. L. Hirschberg. No. 1,423,215; July 18.
 Lay figure, model, or doll. Jointed. C. de Grasse, née Fould. No. 1,422,840; July 18.
 Lead blocks, Spar-tree protector and fastening device for high-. W. R. Allen and T. K. McRea. No. 1,423,292; July 18.
 Leaf-spring connection. J. J. Rath. No. 1,423,255; July 18.
 Lighting fixture. K. Keller. No. 1,423,331; July 18.
 Lime and sulphur stabilized with an aromatic compound, Compound of. M. S. Hopkins. No. 1,422,977; July 18.
 Liquid-level indicator. S. W. Finch. No. 1,423,411; July 18.
 Liquid measuring and dispensing apparatus. T. F. Callahan. No. 1,423,305; July 18.
 Lithographic printing machine for direct or offset printing, Rotary. C. L. Stern. No. 1,423,165; July 18.
 Lock: See—
 Automobile lock. Railway-switch lock.
 Combination lock.
 Lock. A. Block. No. 1,422,820; July 18.
 Lock. W. O. Coleman. No. 1,423,397; July 18.
 Lock. A. G. Delph and R. C. Hemphill. No. 1,422,936; July 18.
 Locking device. C. M. Corbett. No. 1,423,194; July 18.
 Locomotive stoker. C. H. Jeffers. No. 1,423,221; July 18.
 Locomotives, Valve cut-off and speed indicator for. V. Z. Caracristi and A. F. Wallbillich. No. 1,422,832; July 18.
 Logging hook. G. Betcher. No. 1,423,301; July 18.
 Loom, Automatic filling-replenishing. W. S. Southwick. No. 1,422,897; July 18.
 Looms, Replenishing mechanism for multicolor. H. ter Kulle. No. 1,423,279; July 18.
 Lubricator. L. E. Osborne. No. 1,423,011; July 18.
 Lumber carrier. C. F. Gerlinger. No. 1,422,958; July 18.
 Luminous article and making same. W. H. Dey. No. 1,422,841; July 18.
 Lunette bracket. L. B. Craig. No. 1,423,196; July 18.
 Magneto electric machine. C. Olivetti. No. 1,423,141; July 18.
 Mail box in house walls. B. T. Pennig. No. 1,423,251; July 18.
 Mast top. G. F. Watts. No. 1,423,377; July 18.
 Mat. R. H. Phillips. No. 1,422,887; July 18.
 Matrix-making machine. I. N. Zeller. No. 1,423,290; July 18.
 Mattress. A. E. Gomes. No. 1,423,416; July 18.
 Measuring machine for gauges. R. Hill. No. 1,423,214; July 18.
 Mechanical connector. W. H. Michaelsen. No. 1,422,880; July 18.
 Melting pot. J. B. McClain. No. 1,423,501; July 18.
 Melting tank. G. C. Heilman. No. 1,422,858; July 18.
 Metal bodies, Art and mechanism for drawing hollow cylindrical. C. B. Higgins. No. 1,422,974; July 18.
 Metal wheel. J. H. Wagonhorst. No. 1,423,373; July 18.
 Metals, Dissolving or recovering. H. Bardt. No. 1,423,069; July 18.
 Metals from solutions, Precipitating. H. Bardt. No. 1,423,070; July 18.
 Meter: See—
 Gas meter.
 Mill: See—
 Cane mill.
 Milling machine. W. A. Gruenberg and D. Miller. No. 1,422,850; July 18.
 Milling tool. C. J. Converse. No. 1,423,192; July 18.
 Mirror, Dental. W. E. Knight. No. 1,423,225; July 18.
 Molding machine. R. McClenathen. No. 1,423,349; July 18.
 Molding machine. J. T. Pokorny. No. 1,423,020; July 18.
 Mop. J. McNaughton. No. 1,423,444; July 18.
 Mortar spreader. J. Giovagnoli. No. 1,423,316; July 18.
 Motor: See—
 Internal-combustion mo- Spring motor.
 tor. Wave motor.
 Motor. E. W. Brown. No. 1,423,395; July 18.
 Motor adjuncts, Unit assemblage of. V. Link. No. 1,422,995; July 18.
 Mower pitman, Automatic. C. Pearson. No. 1,423,013; July 18.
 Multimotor, Internal-combustion. F. W. Smith. No. 1,423,365; July 18.
 Music-roll cabinet. E. L. Carlson. No. 1,423,078; July 18.
 Music rolls and the like, Container for. C. S. Burton. No. 1,422,829; July 18.
 Musical instruments, Expression device for automatic J. C. Hagey. No. 1,422,969; July 18.
 Necktie holder. P. Klinkhammer. No. 1,423,498; July 18.
 Nitramines, Preparation of aromatic. L. Haas. No. 1,423,494; July 18.
 Nut-salting machine. M. Peruzzi. No. 1,423,014; July 18.
 Oat groats and the like, Production of. H. C. Otterstedt. No. 1,423,450; July 18.
 Oil. W. N. Blakeman, Jr. No. 1,423,392; July 18.
 Oil burner. A. A. Riley. No. 1,423,022; July 18.
 Oil burner. J. Wilkinson. No. 1,422,907; July 18.
 Oil burner, Wickless. A. J. Blackford. No. 1,423,302; July 18.
 Oil-burning apparatus. A. P. Broomell. No. 1,423,181; July 18.
 Oil can. E. H. Noble. No. 1,423,503; July 18.
 Oil cup. F. O. Hoagland. No. 1,423,112; July 18.
 Oil engine, Internal-combustion. K. I. Crossley and W. L. Webb. No. 1,423,088; July 18.
 Oil ring, Dustproof. W. Henry. No. 1,422,972; July 18.
 Oil, Treating petroleum. R. Cross. No. 1,423,500; July 18.
 Oil-well packer. C. M. Heeter. No. 1,423,213; July 18.
 Oiling device. P. W. Burke and A. J. Breeding. No. 1,423,077; July 18.
 Optical instrument. H. L. de Zeng. Nos. 1,423,091-2; July 18.
 Ordnance, High-angle. A. T. Dawson and G. T. Buckham. No. 1,423,404; July 18.
 Ore concentrator. W. C. McCoy. No. 1,423,130; July 18.
 Outgauge. E. Schmitt. No. 1,423,156; July 18.
 Oven, Electric. J. D. Haynsworth. No. 1,422,857; July 18.
 Ovens, Utensil-handling device for bake. R. Haas. No. 1,423,320; July 18.
 Package blank and package. J. H. Greenstreet. No. 1,422,966; July 18.
 Packing, Journal. C. A. Gelin. No. 1,423,207; July 18.
 Paint composition. W. N. Blakeman, Jr. No. 1,423,390; July 18.
 Paint vehicle. W. N. Blakeman, Jr. No. 1,423,389; July 18.
 Paint, Water. A. L. Rice. No. 1,423,256; July 18.
 Paints, Pigment composition for. W. N. Blakeman, Jr. No. 1,423,391; July 18.
 Pan: See—
 Ash pan.
 Paper, Device for graduating lines on ruled. B. Shatz. No. 1,422,892; July 18.
 Paper dish. E. T. Maxwell. No. 1,423,001; July 18.
 Paper file and binder. H. Brundage. No. 1,423,076; July 18.
 Paper-folding machine. L. A. Straubel. No. 1,423,276; July 18.
 Paper holder. S. Williams. No. 1,423,286; July 18.
 Paper-making machines, Attachment for. C. E. Cramer. No. 1,423,400; July 18.
 Parachute. C. L. Newman. No. 1,423,248; July 18.
 Pasting machine. L. J. Van Guelpen. No. 1,423,282; July 18.
 Pastry cones, Machine for and making. W. M. and P. D. Roberts. Nos. 1,423,259-60; July 18.
 Pastry products, Machine for baking. W. M. and P. D. Roberts. No. 1,423,258; July 18.
 Pen, Fountain. J. A. O'Connor. No. 1,423,448; July 18.
 Pencil. H. R. Johnson. No. 1,422,984; July 18.
 Percolator. M. L. Warner. No. 1,423,475; July 18.
 Phonograph record. J. H. Geddes. No. 1,423,206; July 18.
 Phonograph sound box. L. J. Bergdoll. No. 1,423,387; July 18.
 Phonographs, Attachment for. C. B. Preston. No. 1,423,360; July 18.
 Phonographs, Record turner for. G. R. Knick. No. 1,422,989; July 18.
 Photographic-roll-film spool. M. Niell. No. 1,423,355; July 18.
 Photographic roll films, Daylight developing tank for. G. V. Rowden. No. 1,423,457; July 18.
 Piano player. C. H. Spencer. No. 1,423,271; July 18.
 Pianos and the like, Pneumatic action for player. A. P. Gustafson. No. 1,423,505; July 18.
 Pianos, Tracking device for player. G. P. Brand. No. 1,422,824; July 18.
 Picture machine, Motion-. N. Power. No. 1,423,452; July 18.
 Picture machines, Fire shutter for moving-. J. H. O'Brien. No. 1,423,139; July 18.
 Pill counter and bottle filling machine. W. A. Hill. No. 1,422,860; July 18.
 Pipe, Apparatus for manufacturing. F. W. Colby. No. 1,422,834; July 18.
 Pipeless furnace. C. M. Buller. No. 1,422,828; July 18.
 Piston. C. P. Houseman. No. 1,423,425; July 18.
 Piston and connecting rod construction. R. A. Lundell. Nos. 1,423,343-4; July 18.
 Placard, Business hours. J. T. McNiff. No. 1,423,485; July 18.
 Plate envelope. A. P. Hantsch. No. 1,423,420; July 18.
 Plates, Separator for storage-battery. G. E. Beck. No. 1,422,815; July 18.
 Plug, Drain. W. Grikscheit. No. 1,423,418; July 18.
 Pneumatic dispatch-tube carrier, Identifying means for. F. S. Leavett and E. A. Staples. No. 1,423,440; July 18.
 Pocket. J. L. Kirk. No. 1,423,434; July 18.
 Poke, Cattle. C. F. Schneider. No. 1,423,362; July 18.
 Pot: See—
 Melting pot.

- Potassium compounds, Extraction of. W. Glaeser. No. 1,422,818; July 18.
- Pottery kiln, Gas fired. A. M. Duckham. No. 1,423,408; July 18.
- Power press for tile, mosaics, and the like. D. Crossley. No. 1,423,401; July 18.
- Power transmission apparatus, Fluid. J. H. Bair. No. 1,423,386; July 18.
- Power transmission mechanism. R. T. Cooke. No. 1,422,929; July 18.
- Pressed steel wheel. J. Ledwinka. No. 1,423,229; July 18.
- Presses, Automatic feeder for. P. W. Barker. No. 1,422,914; July 18.
- Pressure generator. A. T. Kasley. No. 1,423,330; July 18.
- Printing machine. J. Heberling. No. 1,423,325; July 18.
- Printing plates, Securing means for. C. A. Meisel. No. 1,423,486; July 18.
- Printometer bracket. C. E. Brown. No. 1,423,182; July 18.
- Propeller blades, Machine for planing or machining. G. A. Clavey. No. 1,423,307; July 18.
- Protector. M. G. Darling. No. 1,423,402; July 18.
- Pulley. M. F. Williams. No. 1,423,476; July 18.
- Pulley, Clutch. J. F. McNally and R. A. Bradley. No. 1,422,873; July 18.
- Pump. L. H. Haney. No. 1,423,496; July 18.
- Pump and pumping system. B. S. Aikman. No. 1,423,201; July 18.
- Pump, Centrifugal. W. F. Trenary. No. 1,423,369; July 18.
- Pump mechanism. E. B. Thompson. (Reissue.) No. 1,423,415; July 18.
- Pump plunger. E. C. Critchlow. No. 1,423,197; July 18.
- Pumps, Gear for well. H. W. Gerken. No. 1,423,102; July 18.
- Pyrotechnic composition. W. T. Scheele. No. 1,423,264; July 18.
- Radiator, Electric. C. F. Smith and G. E. Curtiss. No. 1,423,039; July 18.
- Radiator pet-cock attachment. M. H. Bose. No. 1,422,919; July 18.
- Radiator, Sectional. R. Oshkosh. No. 1,423,449; July 18.
- Radio transmission. H. W. Nichols. No. 1,422,882; July 18.
- Rails, Tie plate for. E. N. Johnson. No. 1,422,983; July 18.
- Railway signaling device. O. Green. No. 1,423,318; July 18.
- Railway switch. J. D. Cooper. No. 1,422,836; July 18.
- Railway switch. J. T. Moore. No. 1,423,005; July 18.
- Railway-switch lock. A. G. Grant and J. J. Fanning. No. 1,422,963; July 18.
- Railroad-switch throw and lock, Automatic. F. H. Martin. No. 1,423,351; July 18.
- Rain cape. L. H. Geis. No. 1,423,315; July 18.
- Razor, Safety. O. L. Glaser. No. 1,423,414; July 18.
- Receptacle holder. O. O. Sheline. No. 1,423,465; July 18.
- Receptacles, Sput for metallic. H. S. Reynolds. (Reissue.) No. 1,423,413; July 18.
- Recording instrument, Multiple. R. P. Brown and F. Wagner. No. 1,422,920; July 18.
- Reel. *See*—
Transfer reel.
- Reinforcing bar, Deformed. J. T. Simpson. No. 1,423,163; July 18.
- Refrigerating apparatus, Controlling mechanism for. C. C. Hansen. No. 1,422,853; July 18.
- Register-operating mechanism. R. E. Kimball. No. 1,423,333; July 18.
- Retort. F. J. Metzger. No. 1,422,878; July 18.
- Rim, Demountable. W. E. Beeman. No. 1,423,176; July 18.
- Rim, Demountable. S. W. Swanson. No. 1,423,471; July 18.
- Rim, Demountable. F. H. Van Loozen. No. 1,423,283; July 18.
- Rims, Cutting over metal. A. L. Johnson. No. 1,423,222; July 18.
- Ring. *See*—
Dustproof oil ring. Spinning ring.
Finger ring.
- Rivet-setting machines, String holding and cutting adjustment for. H. Parkinson. No. 1,423,250; July 18.
- Road-building apparatus. C. A. Smith. No. 1,422,895; July 18.
- Rolling machine. E. E. Slick. No. 1,423,268; July 18.
- Rotary machine. F. Egersdörfer. No. 1,422,946; July 18.
- Rubber heel. A. Costantino. No. 1,423,399; July 18.
- Rubber, Manufacture of sponge. A. J. Ostberg and A. Kenny. No. 1,422,884; July 18.
- Rubber or the like to fabrics, Machine for applying solutions of. A. Boecler. No. 1,422,822; July 18.
- Rule and pencil holder, Mechanic's. J. R. Platt. No. 1,423,359; July 18.
- Safes or other enclosures, Device for protecting. G. W. Tiffany. No. 1,422,903; July 18.
- Sand-blast apparatus. H. F. Liedtke. No. 1,423,123; July 18.
- Sand-pipe heater. C. B. Johns. No. 1,423,429; July 18.
- Sanitary container. G. Korittke. No. 1,423,336; July 18.
- Sash holder, Window. H. L. Scholl. No. 1,423,034; July 18.
- Saw for cutting metals. P. V. Vernon. No. 1,423,504; July 18.
- Saw, Pruning. A. Slothower. No. 1,423,506; July 18.
- Saw, Wood. W. Shepherdson. No. 1,423,159; July 18.
- Scaling instrument, Proportional. J. D. Carter. No. 1,422,925; July 18.
- Scissors. E. Levy. No. 1,423,127; July 18.
- Screening apparatus. M. P. Reynolds. No. 1,423,021; July 18.
- Screw gauge. C. A. Ledell. No. 1,423,339; July 18.
- Screw propeller and the like. A. A. Holle. No. 1,423,113; July 18.
- Seat. *See*—
Spring seat. Theater seat.
- Sealing machine, Carton. J. L. Ferguson. No. 1,423,094; July 18.
- Sealing vacuum jackets, Method of and apparatus for. J. L. Fate. No. 1,423,093; July 18.
- Seam for sewed articles. A. H. De Voe. No. 1,423,479; July 18.
- Searchlights, Electric arc mechanism for. L. C. Josephs, Jr. No. 1,423,497; July 18.
- Seat cover. E. Wittcoff. No. 1,422,908; July 18.
- Sewing machine. G. S. Gatchell. No. 1,423,205; July 18.
- Sewing-machine bobbin case. L. E. Weaver. No. 1,423,056; July 18.
- Sewing-machine frame. J. R. Moffatt. No. 1,423,243; July 18.
- Sewing machines, Spool holder for. H. A. Meissel. No. 1,423,487; July 18.
- Shaker screen, Revolving. J. C. Uhlarik. No. 1,423,370; July 18.
- Shaping machine. W. T. Sears. No. 1,423,266; July 18.
- Sheet metal, Device for producing extruded. A. F. Rockwell. No. 1,423,361; July 18.
- Shipping case, Wooden. A. H. Godkevitch. No. 1,423,317; July 18.
- Shock absorber. H. B. Morgan. No. 1,423,006; July 18.
- Shoe. E. Magaldi. No. 1,423,445; July 18.
- Shoehorn. I. O. Harms. No. 1,423,422; July 18.
- Shuttle attachment. H. L. Fonner. No. 1,423,099; July 18.
- Sign carrier. J. D. Austin and T. Roberts. No. 1,422,911; July 18.
- Signal. *See*—
Vehicle signal.
- Signaling machines, Reading ribbon in. W. Dougall. No. 1,422,842; July 18.
- Signaling method and apparatus. D. G. McCaa. No. 1,423,345; July 18.
- Silk, Composition for the treatment of artificial. C. A. Snyder. No. 1,423,041; July 18.
- Silo fillers, Corn-snapping mechanism for. G. F. Norton and E. A. Ende. No. 1,423,138; July 18.
- Soldering device. A. W. Bjorkman. No. 1,422,917; July 18.
- Sole-softening machine, Leather. J. L. Clevenger. No. 1,422,927; July 18.
- Soles, Cutting device for leather. G. O. Ferry. No. 1,422,901; July 18.
- Sound-box diaphragm. H. L. Tift. No. 1,423,368; July 18.
- Spark intensifier. M. J. Freeman. No. 1,423,204; July 18.
- Spark plug. D. M. Hutchinson. No. 1,423,219; July 18.
- Speedometer, Recording. M. W. Koski. No. 1,422,990; July 18.
- Spring. *See*—
Vehicle spring.
- Spinning ring. C. A. Holt. No. 1,423,216; July 18.
- Spring motor. L. Schmitt. No. 1,423,032; July 18.
- Spring-motor-winding mechanism. O. C. Leger. No. 1,423,230; July 18.
- Spring rings and manufacturing same, Bolt for. L. Le-maitre. No. 1,423,441; July 18.
- Spring seat. L. Schreiber. No. 1,423,460; July 18.
- Spring suspension. V. W. Pagé. No. 1,423,451; July 18.
- Sprinkler. *See*—
Toy sprinkler.
- Sprinkler head. T. J. Madigan. No. 1,422,875; July 18.
- Stable appliance. R. Minshull. No. 1,423,241; July 18.
- Stair landing or platform. A. J. Hall. No. 1,423,481; July 18.
- Stand. *See*—
Display stand.
- Starting and unloading device. F. B. Thomas. No. 1,422,902; July 18.
- Steam boiler with forced-draft furnace. C. Kohler. No. 1,423,335; July 18.
- Steel-cushion wheel. A. C. Hoof. No. 1,422,976; July 18.
- Steel, Manufacture of open-hearth. H. C. Ryding and A. W. Allen. No. 1,423,031; July 18.
- Stereotype-casting frame. J. W. Peckham. No. 1,423,146; July 18.
- Stocking-machine, Circular. G. P. Bosworth. No. 1,423,177; July 18.
- Stop motion. E. F. and J. F. Connell. No. 1,423,398; July 18.
- Stove, Collapsible field. I. C. Popper. No. 1,423,252; July 18.
- Stoves and ranges, Hinge for. S. W. Palmer. No. 1,423,012; July 18.
- Stringing and making the same, Elastic metal. W. A. Larned. No. 1,422,993; July 18.
- Superheater. E. H. Foster. No. 1,422,847; July 18.
- Switch. *See*—
Electric switch. Railway switch.
Lamp switch.
- Tableware, Display roll for flat metal. J. G. Ludlum. No. 1,423,483; July 18.

- Tabulating machines, Sector control for. W. W. Lasker. No. 1,423,439; July 18.
 Talking-machine disk-record cabinet. H. H. Gerstner. No. 1,422,959; July 18.
 Tanning drums, Driving means for. E. Roth. No. 1,423,028; July 18.
 Temperature-controlling system. P. R. Owens. No. 1,422,886; July 18.
 Temperature indicator. L. V. Aronson. No. 1,423,066; July 18.
 Tent and bed. F. Ames. No. 1,423,171; July 18.
 Theater seat. R. Brooks. No. 1,422,825; July 18.
 Thermometer. E. Richardson. No. 1,423,257; July 18.
 Threading machines, Cap-feeding device for. G. F. Anderson. No. 1,423,173; July 18.
 Tie device. A. S. Mathers. No. 1,423,133; July 18.
 Tie holder. W. H. Grainger. No. 1,422,849; July 18.
 Tie retainer. W. J. Getsinger. No. 1,423,208; July 18.
 Tightener. J. T. Simpson. No. 1,423,162; July 18.
 Tile. B. P. Infantino. No. 1,423,117; July 18.
 Timepieces, Balance staff for. W. H. H. Needy. No. 1,423,446; July 18.
 Tire. W. R. Halfpenny. No. 1,422,851; July 18.
 Tire. H. Lobel. No. 1,423,232; July 18.
 Tire. D. L. Stouch. No. 1,422,899; July 18.
 Tire, Airless. C. H. Braden. No. 1,423,074; July 18.
 Tire and rim, Combination. C. O. Lambrement. No. 1,423,435; July 18.
 Tire carrier, Spare. A. D. Crossley. No. 1,422,932; July 18.
 Tire chain. L. G. Stukenborg. No. 1,423,470; July 18.
 Tire liner. C. F. Hicks. No. 1,423,423; July 18.
 Tire, Pneumatic. G. E. and C. A. Stuart. No. 1,423,277; July 18.
 Tire protector. H. H. Shannon. No. 1,423,036; July 18.
 Tire, Resilient. S. P. Long. No. 1,422,996; July 18.
 Tire-rim tool. N. A. Eubank. No. 1,422,948; July 18.
 Tire, Vehicle. E. Bylund. No. 1,422,921; July 18.
 Tires, Antiskid attachment for elastic. W. T. Rollins. No. 1,423,026; July 18.
 Tomatoes, Machine for skinning and coring. H. R. Harding. No. 1,423,421; July 18.
 Tongs, Electrically heated. F. O. Brown. No. 1,422,826; July 18.
 Tonometer. A. Amsler. No. 1,423,293; July 18.
 Tool, Advancing cutter-boring. E. F. G. Gibbs. No. 1,423,209; July 18.
 Tool handle. C. A. Walters. No. 1,423,055; July 18.
 Tool holder. J. R. Moore. No. 1,423,245; July 18.
 Tooth, Artificial. J. E. Rose. No. 1,423,027; July 18.
 Toothbrush and dentifrice holder, Combination. L. Daych. No. 1,423,405; July 18.
 Torpedoes, Depth gear for. H. M. Branham. No. 1,423,179; July 18.
 Tow and push bar, Combined. G. M. Colling. No. 1,422,928; July 18.
 Toy. J. W. Carlson. No. 1,422,833; July 18.
 Toy. E. G. Schreyer. No. 1,423,035; July 18.
 Toy piano. G. E. Roberts. No. 1,423,024; July 18.
 Toy sprinkler. F. G. Hofmann. No. 1,422,862; July 18.
 Tractor. J. W. Lambert. No. 1,423,227; July 18.
 Tractor, Farm. E. W. Taber. No. 1,423,046; July 18.
 Tractor hitch. O. B. Skonnord. No. 1,423,164; July 18.
 Tractor-track obliterator. R. H. Griswold and E. J. Powell. No. 1,422,967; July 18.
 Tractor wheel. E. Feuillette. No. 1,422,952; July 18.
 Tractor-wheel weight. J. B. Walker. No. 1,423,054; July 18.
 Train control device, Automatic. J. P. Angus. No. 1,423,385; July 18.
 Train-speed-control device, Automatic. C. C. Farmer. No. 1,422,844; July 18.
 Train-stopping means, Automatic. G. Chromy. No. 1,423,396; July 18.
 Transfer reel. P. D. Frazer. No. 1,422,954; July 18.
 Transfer mechanism. J. L. Ferguson. No. 1,423,096; July 18.
 Transmission device. S. S. Morton. No. 1,423,008; July 18.
 Transmission mechanism. R. J. Reiser. No. 1,423,454; July 18.
 Transmitters and vacuum-tube amplifiers, Connecting. I. B. Crandall. No. 1,422,837; July 18.
 Trap: See—
 Animal trap.
 Trough, Watering. R. Judy. No. 1,422,986; July 18.
 Truck. J. T. Lynch. No. 1,423,234; July 18.
 Truck coupling. J. H. Cotton and W. L. Burner. No. 1,423,084; July 18.
 Trucks, Body for farm. E. R. Hewitt and J. H. Blake, Jr. No. 1,422,859; July 18.
 Tube: See—
 Compressor tube.
 Tube compressor. F. S. Hyatt. No. 1,422,864; July 18.
 Turbine, Geared. H. F. Schmidt. No. 1,423,459; July 18.
 Turbine internal-combustion. T. J. Puplett. No. 1,423,453; July 18.
 Type carrier. W. W. Lasker. No. 1,423,438; July 18.
 Typewriters, Carriage-shifting mechanism for. R. A. Loomis. No. 1,423,443; July 18.
 Typewriting machine. P. de Clamecy. No. 1,423,311; July 18.
 Unloading apparatus. G. C. Chadwick. No. 1,422,926; July 18.
 Vacuum apparatus, Apparatus for maintaining and removing liquid seal for. O. Minton. No. 1,423,242; July 18.
 Vacuum jet and system of operating the same. T. L. Davenport. No. 1,423,198; July 18.
 Valve. T. Brabson. No. 1,423,178; July 18.
 Valve. T. W. Lees. No. 1,423,340; July 18.
 Valve and gauge, Maximum-pressure inflating. S. B. Noé. No. 1,423,447; July 18.
 Valve construction. G. E. Hazard. No. 1,423,323; July 18.
 Valve mechanism. F. L. Hutchinson. No. 1,422,980; July 18.
 Valve, Relief. A. R. Miller. No. 1,423,135; July 18.
 Valve, Safety gas. E. H. Neviczky. No. 1,423,010; July 18.
 Valve tool. C. D. Sevier and F. P. Eckroat. No. 1,422,890; July 18.
 Vanity box. F. S. Hyatt. No. 1,422,981; July 18.
 Vanity case. O. J. Cathcart. No. 1,423,079; July 18.
 Vehicle, Electric motor. J. K. Delano. No. 1,423,090; July 18.
 Vehicle fender. H. Caplan. No. 1,423,186; July 18.
 Vehicle signal. H. A. Whitman. No. 1,423,285; July 18.
 Vehicle spring. J. M. Gaar. No. 1,422,956; July 18.
 Vehicle suspension, Equalizer for. W. E. Brobst, Jr. No. 1,423,180; July 18.
 Vehicle top, Foldable. J. T. Wolfe. No. 1,423,061; July 18.
 Vehicles, Stabilizing means for suspended. H. Mercier. No. 1,423,002; July 18.
 Venereal disease, Treatment for. W. E. Craig. (Reissue.) No. 15,411; July 18.
 Vermin exterminator. W. W. Camp. No. 1,422,831; July 18.
 Violins and analogous string instruments, Attachment for. W. I. Brown. No. 1,422,827; July 18.
 Wagon-gate construction. G. W. and C. E. Goss. No. 1,422,962; July 18.
 Wall construction, Sheet-piling. C. S. Boardman and C. C. Conkling. No. 1,422,821; July 18.
 Walls, making blocks, slabs, tiles, or briquettes, Mold for use in building. B. Scruby and G. K. Harkness. No. 1,423,461; July 18.
 Washing machine. A. F. Anderson. No. 1,423,295; July 18.
 Washing machine. C. W. Dunmire and S. C. Enck. No. 1,422,940; July 18.
 Washing machines, Driving mechanism for. W. Erni. No. 1,422,843; July 18.
 Watch-chain fastener. J. Loman. No. 1,422,872; July 18.
 Watches, Shipping package for. H. C. Karr. No. 1,423,329; July 18.
 Water alarm, Low-. C. A. Kothe. No. 1,422,870; July 18.
 Water-cooling system, Automatic. O. A. Labus. No. 1,423,337; July 18.
 Water for softening, sterilizing, and like purposes, Treatment of. H. J. Magrath. No. 1,423,132; July 18.
 Water heater. G. L. Ebbenga. No. 1,422,941; July 18.
 Water jet and suction apparatus and means for operating same, Combined. L. Larsen. No. 1,423,436; July 18.
 Water-tube boiler. K. Värsmann. No. 1,423,372; July 18.
 Wave-energy direction, Determination of. M. Mason. No. 1,422,876; July 18.
 Wave motor. O. Hultberg. No. 1,423,115; July 18.
 Wheel: See—
 Car wheel. Metal wheel.
 Disk wheel. Steel cushion wheel.
 Laminated composite wheel. Tractor wheel.
 Wheel, Resilient. A. F. Batchelder. No. 1,423,299; July 18.
 Wheels, Producing. J. L. Hellen. No. 1,423,109; July 18.
 Wheelbarrow. W. E. Showalter. No. 1,422,893; July 18.
 Window. B. Whibley. No. 1,423,057; July 18.
 Window cleaner. A. Meconi. No. 1,423,239; July 18.
 Window-mounting device. H. Faurot, Jr. No. 1,422,951; July 18.
 Window-sash fastener. A. E. Davis. No. 1,423,310; July 18.
 Window shield, Bank-. H. W. Huntress. No. 1,423,327; July 18.
 Wire, Bundled. S. E. Cary. No. 1,423,478; July 18.
 Wire-fence tightener. C. Gushwa. No. 1,423,211; July 18.
 Woodworking machine. J. Hanson. No. 1,422,971; July 18.
 Wrapping machine. F. Heath. No. 1,423,324; July 18.
 Wrench. J. S. McKibbin. No. 1,423,499; July 18.
 Wrench. J. Mumford. No. 1,423,247; July 18.
 Wrench. R. H. Owens. No. 1,423,142; July 18.

ALPHABETICAL LIST OF DESIGNS.

Calendar mounting. D. M. Weston. No. 61,265; July 18.	Lighting fixtures, Shade for. F. Roettges. No. 61,264; July 18.
Dish plate or similar article. G. L. Crowell, Jr. No. 61,222; July 18.	Lighting fixtures, Standard for. J. W. Gosling. No. 61,226; July 18.
Flag for Ireland. P. D. Riordan. No. 61,253; July 18.	Plate or similar article. T. Kotato. Nos. 61,227-41; July 18.
Glass dish. C. L. Reizenstein. Nos. 61,247-52; July 18.	Tire. W. Carnal. No. 61,221; July 18.
Lace. J. Draycott. No. 61,223; July 18.	Tire tread. H. D. Mitchell. Nos. 61,243-5; July 18.
Lace. H. A. Philips. No. 61,246; July 18.	Toy. M. P. Duryea and C. Ingraham. No. 61,224; July 18.
Lamp shade, globe, or similar article. H. D. McFaddin. No. 61,242; July 18.	Tray. J. Gannon. No. 61,225; July 18.
Lighting fixtures, Pedestal for. F. Roettges. Nos. 61,258-63; July 18.	Watch and knife, Combination. W. Ochse. No. 61,220; July 18.
Lighting fixtures, Shade for. F. Roettges. Nos. 61,254-7; July 18.	

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

- Apparel for men, women, and children, Wearing. F. T. Woodman Co. No. 156,943; July 18.
- Aprons. M. P. Duggan. No. 156,860; July 18.
- Automobiles. Lexington Motor Company. No. 156,890; July 18.
- Baby outfits. Polkase Mfg. Co. No. 156,912; July 18.
- Balls, Golf. Holmac, Inc. No. 156,880; July 18.
- Beverage and sirup, Nonalcoholic. Hurty-Peck & Company. No. 156,881; July 18.
- Beverage of pure fruit juices, Nonalcoholic maltless. Northwest Fruit Products Co. No. 156,899; July 18.
- Beverage or drink, Nonalcoholic maltless. Leiber, Max & Company. No. 156,889; July 18.
- Blankets, Cotton and wool. Estate of John E. Townsend. No. 156,932; July 18.
- Butter, condensed and evaporated milks. Dairymen's League Co-Operative Association. No. 156,858; July 18.
- Butter, lard, hams, etc., Creamery. Wm. Schluderberg-T. J. Kurdie Co. No. 156,921; July 18.
- Cameras and projectors, Motion-picture. Aladdin Cinema Company. No. 156,829; July 18.
- Candies. Springer Chocolate Co. No. 156,928; July 18.
- Candy. H. C. Boehm. No. 156,843; July 18.
- Candy. Bonita Co. No. 156,844; July 18.
- Candy. H. B. Chalmers. No. 156,852; July 18.
- Candy. Nunnally Company. No. 156,900; July 18.
- Candy. Package Confectionery Company. No. 156,904; July 18.
- Candy. Palmer Candy Co. No. 156,905; July 18.
- Candy. G. L. Rassias. No. 156,914; July 18.
- Candy. Westmoreland Candy Company. No. 156,942; July 18.
- Candy and chewing gum. J. W. Wood. No. 156,939; July 18.
- Candy, Chocolate. Bishop & Company. No. 156,841; July 18.
- Cane sirup and corn sirup mixed for food purposes. Burns Syrup Company. No. 156,848; July 18.
- Canned fish, fruits, and vegetables. Steele Packing Company. No. 156,930; July 18.
- Canned fruits. H. G. Prince & Co. No. 156,913; July 18.
- Canned fruits and vegetables, fruit preserves, table sauces, dressings, etc. Allison-Bedford Co. No. 156,830; July 18.
- Carbon and high-speed steel twist drills, reamers, rasps, etc. Dyktor Brothers Inc. No. 158,861; July 18.
- Carts, Dump. Auto Truck Service Co. No. 156,969; July 18.
- Chemicals and dental preparations, Certain. L. D. Caulk Company. No. 156,850; July 18.
- Chewing gum. J. G. Kitchell. No. 156,888; July 18.
- Chocolates. Heidelberger Confectionery Co. No. 156,875; July 18.
- Chocolates, chocolate bars, and chocolate nut bars. Merckens, Inc. No. 156,893; July 18.
- Cigarettes. H. L. Savory. No. 156,918; July 18.
- Cigars. Otto Eisenlohr & Bros. Inc. No. 156,862; July 18.
- Cigars. Estate of Joseph J. Schaefer. Nos. 156,919-20; July 18.
- Clothing. J. Schoeneman Incorporated. No. 156,922; July 18.
- Clothing, Certain articles of. E. Byrnes. No. 156,849; July 18.
- Clothing, Certain articles of. O. F. Grab & Co. No. 156,874; July 18.
- Clothing, Certain articles of. Ottenheimer, Goldman Co. No. 156,901; July 18.
- Cocoa butter. Daarnhouwer & Co. No. 156,857; July 18.
- Coffee. Central Coffee Co. No. 156,851; July 18.
- Coffee. Johnson-Layne Coffee Company. No. 156,884; July 18.
- Coffee. Nash Coffee Company. No. 156,895; July 18.
- Confection comprising seedless raisins and roasted peanuts, Food. C. C. Adams. No. 156,828; July 18.
- Cotton cloth in the piece, towels, and toweling. Boott Mills. No. 156,845; July 18.
- Cotton goods in the piece. Trion Company. No. 156,933; July 18.
- Cotton goods in the piece. Wm. Simpson, Sons & Co. No. 156,924; July 18.
- Cotton piece goods. Massachusetts Cotton Mills. No. 156,892; July 18.
- Cotton piece goods. Pacific Mills. No. 156,903; July 18.
- Cotton piece goods. Ware Shoals Mfg. Co. No. 156,938; July 18.
- Cough sirup. J. H. Baker. No. 156,833; July 18.
- Crockery cooking utensils and dishes, flowerpots, etc. American Wholesale Corporation (Baltimore Bargain House). No. 156,972; July 18.
- Dresses. Nat Goldston & Co. No. 156,872; July 18.
- Dresses and frocks, Women's, misses', and children's. G. Farkas. No. 156,865; July 18.
- Dresses, Ladies' and misses'. Morris Nagel & Co. No. 156,894; July 18.
- Dresses, Ladies', misses', and children's. John Wanamaker, New York. No. 156,936; July 18.
- Engines and cream-separating machines, Internal-combustion. Associated Manufacturers Company. No. 156,832; July 18.
- Extracts, colors, and flavors for soft drinks. R. Heinrichshofen. No. 156,876; July 18.
- Finger rings. C. B. Poage. No. 156,911; July 18.
- Fire-extinguisher fluid. Safandshur Chemical Co. No. 156,971; July 18.
- Fire extinguishers and chemical fire engines, Motor-driven and hand-drawn. B. J. Goldstein. No. 156,871; July 18.
- Fireworks. Buettell Brothers Company. No. 156,847; July 18.
- Fishing lines. Cortland Line Co. Nos. 156,948-57; July 18.
- Flavoring extracts for food. Webb Manufacturing Company. No. 156,940; July 18.
- Flavoring extracts for nonalcoholic beverages. National Fruit Flavor Co. No. 156,896; July 18.
- Flavoring extracts, spices, and sauces, Food. I. Berkenfeld. No. 156,964; July 18.
- Flexible driving mechanism, etc. P. L. Billingsley Company. No. 156,837; July 18.
- Fruit frappé. Richard Frank. No. 156,867; July 18.
- Fruits and grape sirup for food purposes, Fresh deciduous and dried. L. Zerillo. No. 156,946; July 18.
- Fruits, Fresh deciduous. Northern California Fruit Co. No. 156,898; July 18.
- Game, Table board. Gamecraft and Toy Company. No. 156,868; July 18.
- Garment, Rain. R. M. Goldfredrick. No. 156,870; July 18.
- Golf clubs, balls, shafts, heads, grips, etc. Holmac, Inc. No. 156,879; July 18.
- Gum, Chewing. J. G. Kitchell. No. 156,887; July 18.
- Ham. Patrick Young Company. No. 156,907; July 18.
- Hats and caps, Men's and children's. D. E. Loewe & Co. No. 156,947; July 18.
- Hats, Ladies'. Fink-Cimioti, Inc. No. 156,866; July 18.
- Hats, Ladies'. Harry Solomons & Son. No. 156,927; July 18.
- Hats, Ladies' trimmed. Staadecker & Co. No. 156,929; July 18.
- Hose, Men's, ladies', and children's cotton, silk, and woolen. L. C. Vaughan. No. 156,935; July 18.
- Hosiery. Bestex Hosiery Co. No. 156,836; July 18.
- Insect fluid. Emerson Pharmaceutical Laboratories. No. 156,863; July 18.
- Kettles, Steam cooking. Curtis Manufacturing Company. No. 156,856; July 18.
- Knitted underwear, Men's and boys'. Rogers Peet Company. No. 156,915; July 18.
- Ladders. Rich Pump and Ladder Company. No. 156,961; July 18.
- Lotion, Cosmetic. T. J. Newlyn. No. 156,897; July 18.
- Malt extract for food purposes. Pabst Corporation. No. 156,902; July 18.
- Marmalades, jams, conserves, etc. Fruit. Phoebe Green Company. No. 156,910; July 18.
- Matches. Jönköpings Och Vulcans Tandsticksfabriksaktiebolag. No. 156,885; July 18.
- Mayonnaise and Russian dressing. Chevy Chase Food Products Co. No. 156,853; July 18.
- Medicinal preparation. Peruna Company. Nos. 156,966-7; July 18.
- Medicinal preparations, Certain. M. S. Snow. No. 156,926; July 18.
- Milk, Preparations for coagulating or curdling. Chr. Hansen's Laboratory, Inc. No. 156,854; July 18.
- Mottoes, Snapping. B. Shackman & Co. Nos. 156,958-9; July 18.
- Neckties, Bow. Hewes & Potter. No. 156,878; July 18.
- Nuts, Pistachio. Zaloom Brothers. No. 156,945; July 18.
- Oil compound. Bay Bee Oil Co. No. 156,835; July 18.
- Oil stearin, Cottonseed. Wyatt Bros. No. 156,973; July 18.
- Pepper, allspice, cinnamon, turmeric, ginger, cloves, sage, etc. Worden Grocer Company. No. 156,944; July 18.
- Piston rings. Piston Ring Company. No. 156,960; July 18.
- Plush goods in the piece. Fred Pearson & Company. No. 156,908; July 18.
- Preparation for the treatment of skin diseases. A. H. Tripl. No. 156,968; July 18.
- Ribbons for making camisoles. Ernest & Herman Levy, Inc. No. 156,970; July 18.
- Roofing, Felt. Stelwagon Manufacturing Co. Nos. 156,962-3; July 18.
- Rug, Fabric known as a royal Turkish. W. T. Smith & Son, Inc. No. 156,925; July 18.
- Salmon. Frederic Blank & Co. No. 156,842; July 18.
- Sardines, Smoked. I. Epstein. No. 156,864; July 18.
- Shirts and boys' blouses and play suits, Men's and boys' work. J. C. Penney Co. No. 156,909; July 18.
- Silkworm gut leaders and leaders made of other material. Weber Lifelike Fly Co. No. 156,941; July 18.
- Sirup, Table. American Molasses Company of New York. No. 156,831; July 18.
- Sirup, Table. M. O. Dantzer. No. 156,859; July 18.
- Sirup, Table. Croker Packing Co. No. 156,855; July 18.

Skates. International Development Company. No. 156,882; July 18.
 Suits and dresses, Children's. Gotham Novelty Co. No. 156,873; July 18.
 Taffy or molasses candy. H. A. Bankes. No. 156,834; July 18.
 Tire retreads. General Tire and Rubber Company. No. 156,869; July 18.
 Tire-tube patches. F. H. Binnering. Nos. 156,838-9; July 18.
 Tire-tube rubber patches, raincoats, overshoes, etc. F. H. Binnering. No. 156,840; July 18.
 Toy, Flying. A. L. Salvo. No. 156,917; July 18.
 Toy stoves, Cooking dishes for. George Borgfeldt & Co. No. 156,846; July 18.
 Toys. Kelmet Corporation. No. 156,886; July 18.
 Toys. Sachem Manufacturing Company. No. 156,916; July 18.

Umbrella and parasol ferrules and ties. Wangee Umbrella Co. No. 156,937; July 18.
 Undershirts, drawers, union suits, waists, shirts, pyjamas, and night robes. I. Panitz. No. 156,906; July 18.
 Underwear, shirtwaists, infants' underwear and dresses, Women's and girls'. Marshall Field & Company. No. 156,891; July 18.
 Valves, Steam-trap air. T. S. Todd & Co. No. 156,931; July 18.
 Water, Mineral. Isle of Wight Water Company. No. 156,883; July 18.
 Water, Natural spring. Shell Rock Spring Water Co. No. 156,923; July 18.
 Well tools and equipment, Oil-. Union Tool Company. No. 156,934; July 18.
 Yeast. Northwestern Yeast Company. No. 156,965; July 18.

ALPHABETICAL LIST OF LABELS.

"A C T Chemical Products." (For Pieces of Paper or Other Material Which are to be Attached to Bottles, Boxes, or Packages Containing Chemical Articles of Manufacture.) A. C. Thayer. No. 24,738; July 18.
 "Ajem Corn Paste." (For a Proprietary Medicine for the Removal of Corns and the Like.) M. A. Ajemian. No. 24,711; July 18.
 "All-Season Veil." (For Vells.) A. A. West. No. 24,740; July 18.
 "American 'E' Products Company." (For Powdered Soups.) American "E" Products Company. No. 24,712; July 18.
 "Death-Blo Certainly Annihilates Pests." (For Packages Containing a Preparation for Destroying Insects.) D. F. Davenport. No. 24,718; July 18.
 "De Luxe Vanity." (For Powder Puffs.) Hochschild Corporation. No. 24,724; July 18.
 "Dexter's Mother's Bread." (For Bread.) E. A. Dexter. No. 24,719; July 18.
 "G M C Metallic Grease." (For Lubricating Grease.) Gearo Mfg. Co. No. 24,722; July 18.
 "Graino." (For Soap.) Kendall Products Corporation. No. 24,728; July 18.
 "Grier's Grinding Compound." (For Compounds for Grinding in Bearings.) Griburn Co. No. 24,723; July 18.
 "Harry's Florida Pecan Roll." (For a Nut Confection.) H. Bernstein. No. 24,715; July 18.
 "Holmes Honey Pops." (For Confectionery.) H. G. Holmes. No. 24,725; July 18.
 "Jack's Bait Wiggle Tail." (For Containers for Fishing Bait.) J. R. Cunningham. No. 24,177; July 18.
 "Jack's Fish Ferrets." (For Fishing Tackle.) J. R. Cunningham. No. 24,716; July 18.
 "Kendene." (For Soap.) Kendall Products Corporation. No. 24,730; July 18.
 "Kill-O-Pest." (For a Liquid Disinfectant for Destroying Ants, Moths, Flies.) Universal Products Co. No. 24,739; July 18.
 "Korex." (For Soap.) Kendall Products Corporation. No. 24,729; July 18.

"Maltoid Milk-Bone Puppy Food." (For Dog Biscuits.) F. H. Bennett Biscuit Company. No. 24,714; July 18.
 "Murray's Fragrant Cream Violet for Beautifying The Complexion." (For 25¢, 35¢, and 50¢ Size Bottles Containing a Preparation for Beautifying the Complexion.) E. L. Murray. No. 24,731; July 18.
 "Old Virginia Brunswick Stew." (For Canned Old Virginia Brunswick Stew.) F. Sturdivant. No. 24,736; July 18.
 "On the trail of a Good Tire." (For Vehicle Tires, Being Applied to the Boxes or Packages Containing the Same.) Ideal Tire and Rubber Company. No. 24,726; July 18.
 "Pure Silk." (For Hosiery.) Non-Rip Silk Hosiery Mills Inc. No. 24,732; July 18.
 "Ruggiero's Dentatura." (For Bottles or Cartons Containing a Mouth Wash.) A. Ruggiero. No. 24,734; July 18.
 "Square D Safety Switch." (For Electric Switches.) Square D Co. No. 24,735; July 18.
 "Style No. 2016. The Read-Sew Package." (For an Envelope Containing Children's Ready-to-Sew Garments.) Read-Sew Package Co. No. 24,733; July 18.
 "Sunshine Macaroni." (For Macaroni.) Sunshine Macaroni Mfg. Co. No. 24,737; July 18.
 "The World's Finest Fruit." (For Fruit Wrappers.) H. R. Williar. No. 24,741; July 18.
 "Thor De Garcia & Co. Havana." (For Cigars, Cigarettes, and Tobacco.) Joseph A. Garcia & Company. No. 24,721; July 18.
 "Varicosol." (For a Box Containing a Medical Preparation in Powder Form for the Treatment of Hardening of the Arteries, Varicocele, Varicose Veins, and Rheumatism.) P. T. Donovan. No. 24,720; July 18.
 "Vitamine Tomatoes." (For Canned Tomatoes.) Kemp Bros. Packing Co. No. 24,727; July 18.
 "Wheatworth Whole Wheat Graham Crackers." (For Crackers.) F. H. Bennett Biscuit Company. No. 27,713; July 18.
 "Ziegler's Acro Kisses." (For Candy Kisses.) Geo. Ziegler Co. No. 27,742; July 18.

ALPHABETICAL LIST OF PRINTS.

"Coals." (For Advertising Purposes for Coal.) F. A. Bassett. No. 6,211; July 18.
 "Dandericide." (For Advertising Purposes for Hair Tonic.) L. J. Wantland. No. 6,222; July 18.
 "Featuring The Non Rip Silk Hosiery." (For Advertising Purposes for Hosiery.) Non-Rip Silk Hosiery Mills Inc. No. 6,217; July 18.
 "Leaping Bass No. 1." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,214; July 18.
 "Leaping Bass No. 2." (For Advertising Purposes for Fishing Tackle.) Enterprise Manufacturing Company. No. 6,213; July 18.
 "Made Mechanically Correct." (For Advertising Purposes for Steel Boats, Barges, Marine Engines, Boilers, and Equipment.) Marietta Manufacturing Company. No. 6,215; July 18.
 "Scientific Control vs. Indiscriminate Feeding." (For Advertising Purposes for Mead's Infant Diet Materials.) Mead Johnson & Company. No. 6,216; July 18.

"Singer Electric Fans." (For Advertising Purposes for Electric Fans.) Singer Manufacturing Company. No. 6,221; July 18.
 "Singer Portable Electric." (For Advertising Purposes for Portable Electric Sewing Machines.) Singer Manufacturing Company. No. 6,220; July 18.
 "Singer Sewing Motor." (For Advertising Purposes for Sewing Motors.) Singer Manufacturing Company. No. 6,219; July 18.
 "Sport Trousers." (For Advertising Purposes for White Duck Clothing.) James E. Richards Company. No. 6,218; July 18.
 "The Winner's Cup." (For Advertising Purposes for Gold and Silver Ware.) Chrichton Bros. No. 6,212; July 18.
 "Venus Thin Leads." (For Advertising Purposes for Lead Pencils.) American Lead Pencil Company. No. 6,210; July 18.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Alloys for use in the manufacture of jewelry and jewelers' goods. Marret, Bonnin, Lebel & Guieu. No. 161,329; July 18.
- Analgesic tablets for headache, neuralgia, rheumatism, etc. P. Metadier. No. 161,633; July 18.
- Antiseptic preparation. West-Laboratorium Gesellschaft mit beschränkter Haftung. No. 153,494; July 18.
- Aprons and house dresses. H. S. Weil Co. No. 152,528; July 18.
- Balls, Golf. A. G. Spalding & Bros. No. 162,959; July 18.
- Balls, Golf. Holmac, Inc. No. 165,080; July 18.
- Balls, Golf. Holmac, Inc. Nos. 165,376-8; July 18.
- Bandeaux. Chas. R. De Bevoise Co. No. 159,500; July 18.
- Banks and safes, Small portable savings. Stronghart Company. No. 129,479; July 18.
- Bath compound for skin diseases and rheumatic pains, Medicinal. W. Message. No. 159,276; July 18.
- Bearing metal in pig form. Ackermite Company of America. No. 157,205; July 18.
- Belt dressing. F. Ryan. No. 161,749; July 18.
- Belting, Leather. J. Bachmann. No. 160,652; July 18.
- Beverages sold as soft drinks and sirups for making same. California Bottling Co. No. 159,920; July 18.
- Beverages sold as soft drinks and sirups for making same. Grain Juice Company. No. 163,442; July 18.
- Bicycles. Worcester Electric Supply Co. No. 162,080; July 18.
- Binders and bound blank books and indexes, Loose-leaf. National Blank Book Co. No. 162,260; July 18.
- Bleaching and water-softening preparation. Joseph Crossfield & Sons. No. 160,997; July 18.
- Blood purifier and nerve tonic. D. J. Gunter. No. 157,834; July 18.
- Boards, panels of wood, etc. Fiat. No. 148,269; July 18.
- Boiler fittings and furnishings, Steam. Reliance Gauge Column Company. No. 137,269; July 18.
- Book covers. M. L. Stoughton. No. 159,222; July 18.
- Boots and shoes. A. Freedman & Sons. No. 149,278; July 18.
- Boring tools and machines, reamers, milling machines, etc. Storm Manufacturing Company. No. 143,839; July 18.
- Bracelets. Cohn & Rosenberger, Inc. No. 164,494; July 18.
- Brake and wood transmission linings, Wood. S. W. Akins. No. 159,914; July 18.
- Brassières. Chas. R. De Bevoise Co. No. 159,307; July 18.
- Brassières. Chas. R. De Bevoise Co. No. 159,744; July 18.
- Brassières and corsets. Kabo Company. No. 159,468; July 18.
- Bricks and paving blocks, Fire. Geo. S. Good Fire Brick Co. No. 113,560; July 18.
- Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 139,765; July 18.
- Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 139,830; July 18.
- Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 139,833; July 18.
- Brushes for painting, varnishing, cleaning, etc. John L. Whiting-J. J. Adams Company. No. 140,420; July 18.
- Burnishing compound. Mid-West Manufacturing Company. No. 162,840; July 18.
- Cars and roller-bearing trucks, motor and horse drawn, and wheels and axles. Railway and Mine Supply Company. No. 160,975; July 18.
- Cars, Motor. Duesenberg Automobile & Motors Co. No. 160,877; July 18.
- Cement, Portland. Marquette Cement Manufacturing Company. No. 161,846; July 18.
- Charcoal not specially prepared for decolorizing or deodorizing. Tennessee Eastman Corporation. No. 160,518; July 18.
- Checks, check-book cases, and check-book covers, etc. William Mann Company. No. 163,280; July 18.
- Chemical composition employed in stamping patterns. S. S. Bendick. No. 165,264; July 18.
- Chemicals, medicines, and pharmaceutical preparations. Masco Drug Company. No. 151,186; July 18.
- Chemicals or intermediates, rubber accelerators or catalyzers, rubber-compounding ingredients, etc., Coal-tar. National Aniline & Chemical Company. Nos. 161,635-9; July 18.
- Chlorine-control apparatus, Chemical-control equipment for water purification, etc. Wallace & Tiernan Co. No. 149,878; July 18.
- Chlorine-control apparatus, Chemical-control equipment for water purification, etc. Wallace & Tiernan Co. No. 149,880; July 18.
- Cigars. Le Francis Cigar Company. No. 161,007; July 18.
- Cleansing, sterilizing, and disinfecting compound. Eagle Chemical Company. No. 162,810; July 18.
- Clocks, Alarm. Marshall Field & Company. No. 161,537; July 18.
- Cloth, Artificial-silk. Turner & Stroock, Inc. No. 163,298; July 18.
- Clothing. Wasserman & Goldsmith. No. 159,131; July 18.
- Clothing for children. H. Fels. No. 158,302; July 18.
- Clothespins. E. H. Miller. No. 147,886; July 18.
- Coal. Reeves Coal and Dock Co. No. 164,789; July 18.
- Coats and suits. E. J. Wile & Co. No. 156,874; July 18.
- Coats and suits, Ladies'. Linder Bros. No. 151,879; July 18.
- Coats, cloaks, wraps, capes, etc., Women's, children's, and infants'. Salt's Textile Manufacturing Company. No. 159,116; July 18.
- Coats, suits, aprons, and dresses, bath robes, etc., Ladies'. Western Garment Mfg. Company. No. 159,737; July 18.
- Coats, vests, trousers, and overcoats. Menter Co. No. 159,163; July 18.
- Coffee. H. T. Lange Co. No. 156,392; July 18.
- Colors, Coal-tar. Society of Chemical Industry in Basle. No. 157,961; July 18.
- Compasses, banking indicators, air-distance recorders, etc. Pioneer Instrument Company. No. 138,651; July 18.
- Cooking utensils, Aluminum. Wilson Utensil Company. No. 157,462; July 18.
- Corsets, corset waists, brassières, bandeaux, etc. American Lady Corset Co. No. 159,456; July 18.
- Cotton piece goods. New England Commercial Co. No. 161,505; July 18.
- Cotton piece goods. Victor-Monaghan Company. No. 163,953; July 18.
- Cotton, silk, and linen goods and mixtures of cotton and silk and linen and silk, all in the piece. Jacob Miller Sons & Co. Nos. 164,061-3; July 18.
- Cotton waste. Geo. B. Carpenter & Co. No. 161,225; July 18.
- Crackers, Soda. Item Biscuit Co. No. 164,251; July 18.
- Cream, Face. M. E. Wilder. No. 162,225; July 18.
- Crayons. Standard Oil Company of New York. No. 162,903; July 18.
- Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,803; July 18.
- Crayons, Wax and chalk. Standard Crayon Manufacturing Co. No. 161,857; July 18.
- Diapers. Utica Infant Wear Corp. No. 159,631; July 18.
- Dolls. C. L. Scovill. No. 164,722; July 18.
- Dresses, Children's and misses'. T. S. Cohen. No. 154,401; July 18.
- Dresses, Misses' and children's. G. P. Van Lopik. No. 159,670; July 18.
- Duck, Cotton. John Boyle & Company. No. 156,733; July 18.
- Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 148,509; July 18.
- Dynamos, electromotors, converters, etc. Fiat. No. 148,270; July 18.
- Electric conductors, wires, and cables. Boston Insulated Wire and Cable Co. No. 160,534; July 18.
- Electric-light fixtures. J. W. Hancock. No. 162,405; July 18.
- Electric-light sockets, switches, etc. N. W. Nutt. No. 154,612; July 18.
- Electrical apparatus, more particularly tuning-coil sliders. Gehman & Weinert. No. 160,548; July 18.
- Electrical generators. A. Jemielita. No. 159,871; July 18.
- Electrical switches and pull sockets. Hart & Hegeman Manufacturing Company. Nos. 161,729-30; July 18.
- Electrodes, Arc-welding metal. International Welding Engineering Corporation. No. 162,011; July 18.
- Embalming fluid. Master Chemical Co. No. 162,187; July 18.
- Engines, Fuel-feeding apparatus for internal-combustion. G. J. Burns. No. 159,779; July 18.
- Fish hooks and flies. Meier & Frank Co. No. 163,401; July 18.
- Fishing-fly books. F. W. Klinger and Langbein Co. No. 164,170; July 18.
- Fishing line. Ashaway Line & Twine Manufacturing Company. No. 163,727; July 18.
- Fishing lines. Cortland Line Co. No. 164,390; July 18.
- Fishing lines, Braided cotton. Cortland Line Co. No. 164,361; July 18.
- Fishing lines, Braided Japan-silk enameled. Cortland Line Co. No. 164,374; July 18.
- Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 164,368; July 18.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Fishing lines, Enameled Japan-silk. Cortland Line Co. No. 164,370; July 18.
 Fishing lines, Japan-silk waterproof. Cortland Line Co. No. 164,366; July 18.
 Fishing lines, Pure Japan-silk. Cortland Line Co. No. 164,387; July 18.
 Fishing-lines, Oiled-silk. Cortland Line Co. No. 164,371; July 18.
 Fishing lines, Pure-silk. Cortland Line Co. No. 164,385; July 18.
 Flooring, Mastic. Thomas Moulding Brick Company. No. 163,903; July 18.
 Fly liquids, roach powders, liquid spray, etc. Komo Chemical Company. No. 160,497; July 18.
 Forgings, Drop. Union Drop Forge Company. No. 156,938; July 18.
 Founding, Machines for making molds for. Beardsley & Piper Company. No. 159,549; July 18.
 Fur, Unmanufactured. Salomon & Weiner, Inc. No. 162,857; July 18.
 Furnaces, grate frames, grate bars, etc., Solid-fuel. Marion Foundry Corporation. No. 128,555; July 18.
 Ginger ale. Abner-Drury Company. No. 161,715; July 18.
 Gloves, Silk. Cooper, Coate & Casey Dry Goods Co. No. 157,409; July 18.
 Gold, White. Goldfarb & Friedberg Inc. No. 158,183; July 18.
 Gongs, Carriage. Muller and Phipps (Asia) Limited. No. 143,374; July 18.
 Hair nets. S. Glemby's Sons Co. Nos. 163,388-90; July 18.
 Hair nets. Morris, Mann & Reilly, Inc. No. 164,113; July 18.
 Hair nets. Rieser Company. No. 163,178; July 18.
 Hair nets. Rieser Company. No. 163,181; July 18.
 Hair restorer. J. H. Krumrein. No. 160,141; July 18.
 Hair tonic. A. Mell. No. 163,937; July 18.
 Hats, Ladies', H. S. Morris. No. 150,456; July 18.
 Hats, Ladies' trimmed. Scully Brothers & Co. No. 156,759; July 18.
 Hats, overcoats, suits, raincoats, etc., Men's. J. David. No. 158,418; July 18.
 Heaters for heating liquids, Electric. Ford & Manion, Inc. No. 158,674; July 18.
 Hoists, Washburn & Granger, Inc. No. 155,582; July 18.
 Hosiery. Belmont Hosiery Company. No. 155,659; July 18.
 Hosiery. J. C. Larkin. No. 155,895; July 18.
 Hosiery and underwear, Women's. Ladyfair Hosiery and Underwear Co. No. 157,276; July 18.
 Ice-cream cabinets. G. G. Peterson. No. 164,556; July 18.
 Ink, Writing. Mission Bead Company. No. 160,071; July 18.
 Inks, Printing and lithographic. Fuchs & Lang Manufacturing Company. No. 157,419; July 18.
 Inks, Writing. Puritan Drug Mfg. Co. No. 146,654; July 18.
 Insect exterminators. Royal Exterminating Products, Inc. No. 156,296; July 18.
 Insecticides. D. N. Gilpin. No. 159,415; July 18.
 Iron and steel bar metal. Logan Iron & Steel Company. No. 156,452; July 18.
 Iron and steel blanks and shapes, Rolled. Witherow Steel Company. Nos. 162,366-7; July 18.
 Kitchen utensils, Aluminum. National Metal Ware Co. No. 123,657; July 18.
 Knitted sweaters. Cladwell Distributing Company. No. 156,357; July 18.
 Laces and nets in the piece. G. Sidenberg & Co. No. 152,934; July 18.
 Lamp systems for vehicles. Tell-Stop Appliance Co. No. 155,525; July 18.
 Lamps, Electric street signaling. F. Milliken. No. 161,893; July 18.
 Laxatives. Marmola Company. No. 153,357; July 18.
 Leather. W. Graham. No. 161,434; July 18.
 Liniment. S. B. Tizzard. No. 160,266; July 18.
 Loose-leaf devices. E. A. Paul Wolf Co. No. 162,227; July 18.
 Lye. Northern Jobbing Company. No. 162,309; July 18.
 Medicinal compound for the treatment of piles, sore feet, and sores. Wilson Pile Cure Co. No. 160,839; July 18.
 Medicinal preparation for malassimilation and nutritional disorders. International Consolidated Chemical Corporation. No. 162,417; July 18.
 Medicine for rheumatism. A. Karaffa. No. 156,193; July 18.
 Medicine for stomach troubles. W. H. Enell. No. 162,388; July 18.
 Medicine used in treatment of piles, burns, and itch. N. W. Jordan. No. 157,223; July 18.
 Medicines and tonics for colds, grippe, or malaria, face creams or lotions, etc. F. J. O'Rourke. No. 156,543; July 18.
 Metals and alloys and ingots, castings, sheets, rolls, wire, strips, rods, and tubes made from such metals and alloys. Cast, drawn, etc. American Brass Company. No. 158,354; July 18.
 Metals, Nonferrous. Bridgeport Brass Company. No. 158,110; July 18.
 Middy blouses! Perfect Garment Co. No. 158,253; July 18.
 Milk and butter, Condensed. Kent Storage Company. No. 150,072; July 18.
 Mottoes, Snapping. B. Shackman & Co. No. 164,121; July 18.
 Mottoes, Snapping. B. Shackman & Co. No. 164,124; July 18.
 Neckties. Baker, Jacobs & Company. No. 157,133; July 18.
 Net goods in the piece, Silk. Aime Baboin & Cie. No. 153,967; July 18.
 Newspaper section. Journal Company, Incorporated. No. 161,629; July 18.
 Oil, Antiseptic healing. A. Roesch. No. 160,261; July 18.
 Ointment. R. E. White. No. 160,735; July 18.
 Ointment or salve, Medicated healing. Greenbaum Company. No. 160,546; July 18.
 Overalls and men's work shirts, Boys'. Louisville Furnishing Goods Co. No. 159,363; July 18.
 Overalls, coats, pants, knickers, and work shirts. C. P. Brown Mfg. Co. No. 153,032; July 18.
 Overalls, jackets, and work shirts. Lawrenceburg Overall Mfg. Co. No. 158,876; July 18.
 Overalls, work shirts, jumpers, duck coats, etc. Keet & Rountree Dry Goods Company. No. 158,619; July 18.
 Paints. A. C. Fischer. No. 130,819; July 18.
 Paper and envelopes. C. P. Lesh Paper Company. No. 164,327; July 18.
 Paper and envelopes, paper tablets, shipping labels, etc., Blank. Roller Printing and Paper Co. No. 160,206; July 18.
 Paper, correspondence envelopes, tablets, and blank books. J. C. Blair Company. No. 164,306; July 18.
 Paper for printing and writing, Sheet. Tribune Company. No. 157,592; July 18.
 Paper for wrapping and packing purposes. Van de Carr Paper Company. No. 159,191; July 18.
 Paper, Wrapping. Charles F. Hubbs & Company. No. 164,250; July 18.
 Paper, Writing. M. Milton. No. 122,018; July 18.
 Paper, Writing and printing. International Paper Company. No. 164,166; July 18.
 Parasols, Novelty. Parisienne Flapper Parasol Company. No. 163,697; July 18.
 Pencils, Lead. Eugene Dietzgen Company. No. 164,027; July 18.
 Pens and pencils, Fountain. Moore Pen Company. No. 160,827; July 18.
 Phonograph-record discs. H. S. Russell. No. 154,286; July 18.
 Phonographs and tone arms, sound boxes, horns, and amplifiers. Cadillac Phonograph Corporation. No. 134,058; July 18.
 Piston rings, Metallic. Foster, Merriam & Company. No. 162,106; July 18.
 Planes, Carpenters'. H. Anderson. No. 159,239; July 18.
 Plugs for repairing metal bodies, plates, boilers, tanks, etc. H. Wichmann. No. 156,320; July 18.
 Polish, metal polish, enamel cleaner, etc., Liquid stove. Rutland Fire Clay Co. No. 162,452; July 18.
 Polishing cloth. P. L. Bearden. No. 162,476; July 18.
 Potatoes, Seed. S. A. and J. L. Colson, administratrices of the estate of Edwin Colson. No. 163,672; July 18.
 Potatoes, Seed. J. H. Kandle. No. 163,682; July 18.
 Powders, perfumes, etc., Toilet and sachet. A. Bourjois & Co. No. 156,953; July 18.
 Powders, Washing. Royal Lemon Products Co. No. 163,414; July 18.
 Preparation for cleaning rugs, carpets, etc., Liquid. F. W. Hozue. No. 163,043; July 18.
 Preparation for treatment of piles, leucorrhea, burns, eczema, etc. J. B. Chancey. No. 154,435; July 18.
 Preparation for the treatment of stomach, bowels, kidney, and heart trouble. C. Dilla. No. 160,538; July 18.
 Preparation used for shaving cream and chapped skin. P. Amsterdam. No. 160,990; July 18.
 Pumps. Deming Company. No. 152,549; July 18.
 Puzzle. Miller & Kent. No. 165,298; July 18.
 Radio, telegraph and telephone transmitting and receiving apparatus. E. Daniel. No. 162,669; July 18.
 Railway tie plates. Railway Lock-Spike Company. No. 160,207; July 18.
 Razor blades, Safety-. Gillette Safety Razor Company. No. 159,148; July 18.
 Receivers, condensers, transformers, etc., Head. Everett Electric Corporation. No. 161,242; July 18.
 Refrigerators. E. Eckl. No. 160,933; July 18.
 Remedy for chapped hands, salt rheum, etc. J. P. Suess. No. 160,084; July 18.
 Ribbons, cotton, woolen, and silk goods, all in the piece. W. Bodek Company. No. 151,199; July 18.
 Rifles. Page-Lewis Arms Company. No. 161,790; July 18.
 Rings to noses of animals, Implement for applying. Estate of A. C. Decker. No. 159,856; July 18.
 Roofing and asphalt shingles, Prepared. Beckman-Dawson Roofing Co. No. 147,086; July 18.
 Rubber tiling for floors. W. H. Salisbury & Company. No. 160,157; July 18.
 Rugs, Axminster. Hugh Nelson's Columbia Carpet Mills. No. 163,820; July 18.
 Salt, Table. F. West. No. 160,452; July 18.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

xxxii

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Salve for the treatment of eczema, itchings, etc. P. A. De Laporte. No. 129,451; July 18.
- Salve, Healing. J. Radzevich. No. 161,647; July 18.
- Shawls and sweaters. Ideal Linen Mesh Co. No. 159,656; July 18.
- Sheetings, Cotton. Columbus Manufacturing Company. No. 155,254; July 18.
- Shingles, Wood. Arthur E. Lane Lumber Corp. No. 163,155; July 18.
- Shirtings in the piece woven from silk, cotton, or a mixture of the same. Turner & Walls. No. 163,297; July 18.
- Shirts and boys' negligee shirts, pyjamas, and night robes. Fowler-Nicolet Co. No. 156,786; July 18.
- Shirts, Men's outer. Jacob Miller Sons & Co. No. 158,687; July 18.
- Shirts, One-piece work. C. P. Brown Manufacturing Co. No. 153,031; July 18.
- Shoe shanks, Metal. Sandow Tool Co. U. S. A. No. 150,709; July 18.
- Shoes, Antislipping attachment for. R. O. Bardon. No. 155,003½; July 18.
- Sifters, Rotary. Jordan Marsh Company. No. 159,970; July 18.
- Silk piece goods. H. R. Mallinson & Co. No. 155,821; July 18.
- Silk piece goods. Zollinger and Schroth, Inc. No. 163,490; July 18.
- Silk taffetas and satin messalines in the piece. Philipsborn's, Inc. No. 163,893; July 18.
- Silks in the piece. Primrose Silk Stores, Inc. No. 160,971; July 18.
- Sirup used in the treatment of colds, croup, etc., Cough. A. C. Holloway. No. 163,273; July 18.
- Slate for use as a surfacing grit for prepared roofings, Crushed. Staso Laminated Slate Company. No. 139,722; July 18.
- Sleeping garments. Jones Bros. Garment Co. No. 142,560; July 18.
- Soap. J. R. Saunders. No. 162,359; July 18.
- Soap. Solar Electric Company. No. 159,535; July 18.
- Soap, Hand. Pacific Chemical Company. No. 162,767; July 18.
- Soap, Oil. John T. Stanley Co. No. 161,654; July 18.
- Soaps, Toilet. Mulhens & Kropff. No. 163,228; July 18.
- Sparkling metal, Pieces of. Art Metal Works, Inc. No. 161,870; July 18.
- Starch, Laundry. Corn Products Refining Co. No. 160,049; July 18.
- Steel and steel plates, Bar, etc. General Steel Products Co. No. 141,302; July 18.
- Stoves and burners, etc., Oil. Cleveland Metal Products Company. No. 161,301; July 18.
- Suits and coats, Men's and boys'. M. Fishman. No. 148,325; July 18.
- Table covers, handkerchiefs, doilies, etc., Cotton. United Turkey Red Company. No. 156,767; July 18.
- Tableware, etc., Babies' and children's. Rogers, Lunt & Bowlen Company. No. 146,734; July 18.
- Tanning extracts, Solid and liquid. Gerb-und Farbstoffwerke H. Renner & Co. Actien-Gesellschaft. No. 158,473; July 18.
- Theft-preventing device, Electrically-operated. W. Jamro. No. 161,839; July 18.
- Therapeutics, Solution for parenteral protein. Chemische Fabrik von Heyden, Aktiengesellschaft. No. 152,954; July 18.
- Tire casings, Pneumatic. B. F. Goodrich Company. No. 162,167; July 18.
- Tires, Rubber vehicle. Fisk Rubber Company. No. 161,043; July 18.
- Torches, Plumbers'. P. H. Gundermann. No. 161,833; July 18.
- Tractors and parts thereof. Miller Traction Tread Company. No. 158,934; July 18.
- Umbrella ribs and stretchers of steel or iron. Wright Bindley & Gell Limited. No. 163,725; July 18.
- Underwear, Ladies'. Parsons & Baker Co. No. 159,218; July 18.
- Valves and pipe fittings. Stack Heater Company. No. 155,276; July 18.
- Valves, Balls, seats, and drops for oil-well. Norris Bros. Inc. No. 160,623; July 18.
- Vault lining plates of composite metal. Bank. American Abrasive Metals Company. No. 157,873; July 18.
- Waists, Tailored. Neiscraft, Inc. No. 157,001; July 18.
- Warning devices, Mechanically-operated. Compagnie Industrielle et Commerciale du Cycle et de l'Automobile. No. 142,005; July 18.
- Watches and clocks. J. F. Mansfield. No. 157,379; July 18.
- Watches and watch movements, watchcases, and parts thereof. R. A. Gsell. No. 144,617; July 18.
- Water, Mineral. A. Velo y Filgueira. No. 140,085; July 18.
- Waterproofed top and seat cover cloth of a textile nature. Golde-Patent Manufacturing Co. No. 156,156; July 18.
- Wireless receiving sets, radio cabinets, etc., Complete loud-speaking. P. E. Edelman. No. 162,616; July 18.
- Wireless transmitting and receiving apparatus. Loyd Wireless Telephone Corporation. No. 161,783; July 18.
- Woolen piece goods. Glazier Mfg. Company. No. 160,758; July 18.

CLASSIFICATION OF PATENTS

ISSUED JULY 18, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

2—	15: 1,423,434	36—	35: 1,422,854	66—	22: 1,423,175	91—	65: 1,422,964	123—	195: 1,422,995	158—	99: 1,423,155	
	60: 1,423,315		1,423,399		24: 1,423,177	92—	1: 1,423,082		1,423,365		109: 1,422,891	
	84: 1,422,849		1,423,445		67—	68: 1,422,930		1,423,083	125—	37: 1,423,075	164—	42: 1,423,474
3—	12: 1,423,296		37: 1,423,456		68—	9: 1,423,068		28: 1,423,199	126—	38: 1,423,252		70: 1,422,901
4—	17: 1,422,953		70: 1,423,409		19: 1,422,940		49: 1,423,400		99: 1,422,828		114: 1,423,110	
	39: 1,423,465		76: 1,422,968		21: 1,423,295	93—	2: 1,423,237		109: 1,423,145		1,423,111	
5—	5: 1,423,171	37—	40: 1,423,047	69—	1: 1,422,927		1,423,324		243: 1,423,352	166—	12: 1,423,213	
	13: 1,423,416		45: 1,423,436		1,423,051		6: 1,423,094		295: 1,422,868	167—	6: 1,422,977	
	29: 1,423,100	40—	11: 1,422,973		1,423,052		36: 1,423,097		337: 1,423,320		7: R. 15, 411	
	39: 1,423,065		16: 1,423,206	70—	18: 1,423,384		91: 1,423,249		367: 1,422,941	169—	41: 1,422,875	
	45: 1,422,939		137: 1,423,262		46: 1,422,820		1,423,250	127—	2: 1,423,231	170—	159: 1,423,113	
6—	10: 1,423,212		142: 1,422,911		53: 1,423,397	95—	12.5: 1,423,364	128—	26: 1,423,033	171—	209: 1,423,141	
7—	6: 1,423,127		146: 1,423,003		122: 1,423,194		64: 1,423,224	129—	1: 1,423,015	172—	152: 1,422,931	
8—	1: 1,422,866	41—	10: 1,423,122		129: 1,423,269		66: 1,423,420		1,423,017	179: 1,423,090		
15—	8: R. 15, 414		17: 1,422,885	72—	1: 1,423,161		90.5: 1,423,457		8: 1,422,950	173—	324: 1,422,991	
	119: 1,423,444	42—	3: 1,423,358		19: 1,422,949	97—	30: 1,422,985		1,423,076		183: 1,422,992	
	147: 1,423,415	43—	46: 1,423,025		1,423,117	99—	1: 1,423,053		12: 1,423,016	175—	332: 1,422,905	
	251: 1,423,239		66: 1,422,894		39: 1,422,814	100—	47: 1,422,979		16: 1,423,029	176—	51: 1,423,497	
16—	16: 1,423,143		75: 1,423,261		105: 1,423,241	101—	19: 1,423,236		1,423,030	178—	112: 1,422,842	
	114: 1,423,406		129: 1,422,831		111: 1,423,163		1,423,325		19: 1,423,473	179—	107: 1,422,877	
	128: 1,423,012		148: 1,423,125		128: 1,423,316		54: 1,423,189	130—	4: 1,422,906	180—	1: 1,423,240	
	1,423,350	44—	9: 1,423,018	73—	44: 1,423,293		133: 1,422,934		5: 1,423,138		9.2: 1,423,227	
	131: 1,423,321		1,423,019		52: 1,423,257		137: 1,423,165	131—	30: 1,423,356		17: 1,423,008	
	135: 1,423,004		1,423,050		54: 1,423,118		378: 1,423,486		51: 1,422,879	181—	26: 1,422,876	
	172: 1,423,455		1,423,058		1,423,223		419: 1,422,914		8: 1,422,921		32: 1,423,368	
18—	6: 1,423,349	45—	129: 1,423,201		55: 1,422,922	103—	44: 1,422,946	132—	83: 1,422,981	183—	67: 1,423,412	
	53: 1,422,884	46—	4: 1,423,341		82: 1,423,191		63: 1,423,197		1,423,079		120: 1,422,839	
19—	12: 1,423,357		14: 1,422,833		1,423,411	104—	25: 1,422,825		84: 1,423,405	184—	39: 1,423,077	
20—	1.01: 1,423,327		40: 1,422,810		120: 1,423,156	105—	190: 1,423,238	134—	11: 1,423,041		45: 1,422,978	
	2: 1,423,468		1,422,852	74—	14: 1,423,102		248: 1,423,314		26: 1,422,861		55: 1,423,011	
	30: 1,423,040		1,423,382		1,423,458		260: 1,423,121		29: 1,423,246		95: 1,423,112	
22—	5: 1,423,146		1,423,383		29: 1,423,299		300: 1,423,287		37: 1,422,957	185—	39: 1,423,230	
23—	13: 1,422,945		41: 1,423,428		33: 1,423,185		308: 1,423,120		39: 1,423,890		45: 1,423,032	
	22: 1,422,848		48: 1,422,862		1,423,469		410: 1,422,823		50: 1,423,256	187—	31: 1,423,484	
	24: 1,422,838		56: 1,423,035		34: 1,423,067		433: 1,423,200		56: 1,423,389	188—	231: 1,422,863	
	1,422,889		69: 1,422,888		42: 1,423,028	107—	15: 1,423,371		58: 1,423,391	189—	3: 1,422,900	
24—	3: 1,422,872		70: 1,423,089		43: 1,423,367		439: 1,423,303		60: 1,423,193	192—	57: 1,423,454	
	13: 1,423,359	47—	6: 1,423,191		50: 1,422,843		43: 1,423,014	137—	103: 1,423,135		66: 1,423,108	
	49: 1,423,208	48—	43: 1,422,935		53: 1,423,007		58: 1,423,258		139: 1,422,919		78: 1,423,413	
	60: 1,423,498		180: 1,422,916		59: 1,423,426		1,423,259		1,422,998		97: 1,423,023	
	66: 1,423,129		1,422,987		81: 1,423,489		1,423,260		1,422,927		99: 1,422,873	
71.1—	1,423,211		1,423,170		101: 1,423,037	109—	6: 1,422,903	139—	18: 1,423,427	196—	25: 1,423,500	
102—	1,423,267		1,423,488		108: 1,423,425	110—	28: 1,423,346		46: 1,423,099	197—	6: 1,423,290	
135: 1,423,263		49—	17: 1,423,195		1: 1,423,338		1,423,347		85: 1,422,897		78: 1,423,443	
155: 1,423,402			54: 1,422,858		18: 1,423,070		47: 1,423,281	140—	118: 1,422,965		123: 1,422,892	
193: 1,423,353			55: 1,423,220		46: 1,423,031		104: 1,422,867		1,423,277	198—	186: 1,423,311	
257: 1,423,043			1,423,128		61: 1,423,072		147: 1,423,335	141—	7: 1,423,300		1: 1,422,942	
25—	21: 1,423,009	51—	5: 1,423,233		80: 1,423,268		233: 1,423,056		1,423,342		20: 1,423,096	
	1,423,020	52—	23: 1,423,264		3: 1,422,830	112—	256: 1,423,243	143—	46: 1,423,159		88: 1,422,926	
	56: 1,423,401	53—	3: 1,423,475		1,422,890		262: 1,423,479	144—	134: 1,422,971		102: 1,423,095	
	121: 1,423,461		5: 1,422,835		57: 1,423,142		285: 1,423,205	146—	6: 1,423,490		127: 1,422,817	
	128: 1,423,284		6: 1,422,935		91: 1,423,247	113—	27: 1,423,098		11: 1,422,937		75: 1,423,388	
	132: 1,422,857	54—	39: 1,423,144		118: 1,423,499		35: 1,422,834		14: 1,423,059		10: 1,423,126	
	145: 1,423,408	55—	12: 1,422,967		28: 1,422,994		51: 1,423,372		1,423,421		43: 1,423,432	
	155: 1,423,000		73: 1,422,982		8: 1,423,275		82: 1,423,093	150—	8: 1,423,463		67: 1,423,274	
29—	33: 1,423,361		107: 1,423,374		9: 1,423,150		92: 1,422,917		52: 1,423,483		93: 1,422,923	
	69: 1,423,504	56—	12: 1,423,472		42: 1,423,450		25: 1,423,179	152—	1: 1,422,899		113: 1,423,228	
	90: 1,423,378		20: 1,423,149		56: 1,423,370	114—	36: 1,422,955		5: 1,423,074		138: 1,422,898	
	96: 1,423,209	58—	134: 1,423,410		1,423,021	116—	40: 1,423,379		8: 1,422,818		8: 1,423,134	
	1,423,245		140: 1,423,446		67: 1,423,169		52: 1,422,960		1,422,921		10: 1,423,071	
	1,422,988	59—	9: 1,423,244		83: 1,423,130		53: 1,423,285		1,422,996		29: 1,422,815	
	1,423,192		85: 1,423,273		36: 1,422,969		114: 1,423,066	11.5—	1,423,447		7: 1,422,974	
	159: 1,423,222		96: 1,423,147		50: 1,423,271	118—	59: 1,423,216		13: 1,423,232	202—	18: 1,423,329	
160.6—	1,423,441		99: 1,423,280		53: 1,423,505	119—	80: 1,422,986		14: 1,423,026	204—	39: 1,423,291	
174: 1,423,109		60—	41: 1,423,453		137: 1,422,824		138: 1,423,362		18: 1,423,277		52: 1,422,975	
30—	1: 1,423,363		42: 1,423,330		281: 1,422,827		1,423,362		1,423,423		59: 1,423,478	
	11: 1,423,140		53: 1,423,386		404: 1,423,024		18: 1,422,984		28: 1,422,976		24: 1,423,226	
	1,423,506		70: 1,423,459	85—	14: 1,423,133		42: 1,423,448		38: 1,423,435		32: 1,423,063	
	12: 1,423,414	61—	39: 1,422,821		32: 1,423,480		120—	114: 1,423,470		32: 1,423,336		
32—	12: 1,423,288		115: 1,423,403		365: 1,423,202		1,423,344	153—	32: 1,422,993		71: 1,423,377	
	27: 1,423,225	62—	6: 1,422,886		4: 1,423,042		1,423,344		72: 1,423,173	205—	14: 1,423,417	
	29: 1,423,027	63—	15: 1,422,819		9: 1,423,103		122—	478: 1,422,847		206—	16: 1,422,959	
33—	1: 1,423,019	64—	5: 1,422,809		17: 1,423,452		504.1: 1,422,870		1,423,418		20: 1,422,845	
	23: 1,423,289		1,423,172		19.4: 1,423,139		25: 1,423,482		44: 1,423,395		24: 1,423,226	
	52: 1,423,414		10: 1,422,918		20: 1,423,091	123—	32: 1,423,085	154—	53: 1,423,460	210—	32: 1,423,377	
	147: 1,423,339		1,422,961		1,423,092		1,423,086		131: 1,422,915	211—	11: 1,423,430	
	192: 1,422,925		17: 1,423,476		1,423,087		1,423,087	155—	138: 1,422,933		14: 1,423,417	
	199: 1,423,214		26: 1,423,265		1,423,088		1,423,088		182: 1,422,908		16: 1,422,959	
34—	5: 1,423,188		27: 1,423,255	89—	27: 1,422,865		44: 1,423,395	157—	1: 1,422,948		20: 1,422,845	
	11: 1,422,816		35: 1,423,502		37: 1,423,404		51: 1,423,073		4: 1,423,183		24: 1,423,226	
	12: 1,423,297		46: 1,423,207	90—	10: 1,423,062		1,423,477		29: 1,423,312		32: 1,423,336	
	1,423,298		60: 1,423,304		13: 1,423,154		59: 1,422,810		36: 1,423,151		32: 1,423,377	
	24: 1,423,136		62: 1,422,812		13.7: 1,422,850		113: 1,423,407		1,423,080	212—	70: 1,423,376	
	48: 1,422,822		100: 1,422,929		31: 1,423,307		164: 1,423,137		76: 1,422,907		141: 1,422,958	
	1,423,242		57: 1,423,322		41: 1,423,266		109: 1,423,152		1,423,022			
36—	2: R. 15, 416	66—	7: 1,423,398	91—	50: 1,423,282		1,423,219					

212—	142: 1, 422, 904	224—	7: 1, 423, 203	235—	98: 1, 423, 333	247—	7: 1, 422, 910	266—	1: 1, 423, 332	292—	192: R. 15, 412
213—	67: 1, 423, 084		29: 1, 422, 932	236—	31: 1, 423, 492		13: 1, 423, 045	267—	20: 1, 423, 006		228: 1, 423, 310
214—	1: 1, 422, 895		1, 423, 158	238—	262: 1, 423, 394		27: 1, 423, 309		29: 1, 423, 451		239: 1, 423, 034
	18: 1, 422, 997	225—	21: 1, 423, 337		304: 1, 422, 983	218—	2: 1, 423, 308		36: 1, 423, 153		262: 1, 423, 467
	65: 4: 1, 423, 234	226—	2: 1, 422, 860	240—	1: 1, 422, 811		20: 1, 423, 119		45: 1, 423, 180	293—	55: 1, 423, 186
215—	142: 1, 422, 924		81: 1, 422, 970		1, 423, 326	250—	8: 1, 423, 345		52: 1, 422, 956		1, 423, 187
	9: 1, 423, 174	228—	2: 1, 423, 366		4: 1, 423, 433		19: 1, 422, 882		69: 1, 422, 999	294—	69: 1, 423, 424
	11: 1, 423, 038		19: 1, 423, 104		41: 1, 423, 233	251—	5: 1, 422, 864		72: 1, 423, 218		83: 1, 423, 301
	38: 1, 423, 105	229—	8: 5: 1, 423, 270		62: 1, 423, 118		8: 1, 423, 418	270—	39: 1, 423, 276	295—	35: 1, 423, 381
	1, 423, 131		16: 1, 423, 272		78: 1, 423, 331		38: 1, 423, 340	271—	1: 1, 422, 989	296—	14: 1, 422, 859
	1, 423, 164		31: 1, 423, 001		108: 1, 423, 319		45: 1, 423, 010		9: 1, 423, 380		44.5: 1, 422, 951
	74: 1, 423, 393	230—	11: 1, 423, 348	242—	18: 1, 423, 160		47: 1, 422, 980		35: 1, 423, 387		51: 1, 422, 962
	81: 1, 422, 883		1, 423, 190		22: 1, 423, 313		48: 1, 423, 178	278—	50: 1, 423, 196		95: 1, 423, 116
217—	12: 1, 422, 912		13: 1, 423, 198		71: 1, 423, 355	253—	10: 1, 423, 115	279—	99: 1, 423, 055		116: 1, 423, 061
	1, 422, 965		24: 1, 422, 853		104: 1, 422, 954		77: 1, 423, 466	280—	33.2: 1, 422, 928	301—	17: 1, 423, 471
	56: 1, 423, 317		1, 422, 902		139: 1, 423, 487		179: 1, 423, 496		33.15: 1, 423, 164		35: 1, 423, 176
218—	89: 1, 423, 254	232—	30: R. 15, 415	243—	39: 1, 423, 440	254—	50: 1, 423, 328		52: 1, 422, 893		1, 423, 283
219—	27: 1, 422, 947		19: 1, 423, 251	244—	21: 1, 423, 218		67: 1, 423, 162	283—	112: 1, 423, 002		1, 423, 354
	21: 1, 422, 826	233—	46: 1, 422, 852		29: 1, 423, 131		139: 1, 423, 292	286—	169: 1, 422, 887	39: 1, 423, 036	
	34: 1, 423, 039		1, 422, 856		1, 423, 166	257—	84: 1, 422, 811		37: 1, 423, 114	41: 1, 423, 054	
	38: 1, 422, 896	234—	1: 1, 422, 832		1, 423, 167		130: 1, 423, 449	287—	9: 1, 423, 369	50: 1, 422, 952	
	41: 1, 423, 380		1.5: 1, 423, 182	246—	19: 1, 422, 814	260—	106: 1, 422, 869		30: 1, 422, 972	58: 1, 423, 373	
220—	32: 1, 423, 215		5: 5: 1, 422, 920		66: 1, 423, 396		128: 1, 423, 101		60: 1, 423, 235	63: 1, 422, 813	
	39: R. 15, 413		31: 1, 422, 990		68: 1, 423, 385		1, 423, 494	288—	89: 1, 423, 013	1, 423, 060	
	61: 1, 423, 157	235—	58: 1, 423, 437		163: 1, 423, 495	261—	39: 1, 422, 871	290—	1: 1, 423, 334	64: 1, 423, 229	
	72: 1, 423, 419		1, 423, 438		196: 1, 423, 318	262—	1: 1, 422, 874		17: 1, 423, 124	302—	36: 1, 423, 221
	73: 1, 423, 278		1, 423, 439		327: 1, 422, 836	263—	1: 1, 423, 123		30: 1, 423, 107	304—	2: 1, 423, 375
	85: 1, 423, 442		61: 1, 423, 168		340: 1, 423, 351		11: 1, 423, 501	291—	20: 1, 423, 429	306—	1: 1, 423, 151
221—	45: 1, 423, 503		69: 1, 422, 944		414: 1, 422, 963		41: 1, 422, 878	292—	33: 1, 422, 936		23: 1, 422, 880
	83: 1, 422, 913		89: 1, 423, 493		443: 1, 423, 005	265—	27: 1, 423, 305		148: 1, 422, 816		

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Ackerman, Frank E., St. Paul, Minn. Mechanical hoist. No. 1,423,638; July 25.
- Adams, Harry E., New York, N. Y. Securing means for automobile top closures. No. 1,424,061; July 25.
- Adams, John Q., et al. (See Craft, Clarence H., assignor.)
- Adell, Edward, Orange, Mass., and C. A. Brink, Cranston, R. I., assignors to Universal Winding Company, Boston, Mass. Cop or bobbin holder. No. 1,423,824; July 25.
- Adriance, Adrian D., Brooklyn, N. Y. Toy arrow. No. 1,423,551; July 25.
- Agnew, Alexander J., and F. F. Renwick, assignors to Ilford Limited, Ilford, England. High-temperature development of photographic materials. No. 1,424,062; July 25.
- Agutter, George, Forest Hills, N. Y. Tennis racket. No. 1,423,900; July 25.
- Airdry Corporation. (See Hibbard, R. B., Watrous, and Bassette, assignors.)
- Akins, Jefferson H., Lewistown, Mont. Shim. No. 1,424,063; July 25.
- Allen, Louise, Hawarden, Iowa. Cigar rest. No. 1,423,507; July 25.
- Allied Golf Company. (See White, James S., assignor.)
- Aluminum-Schweisswerk A.-G. (See Grubenmann, Max, assignor.)
- American Abrasive Metals Company. (See Edmondson, Ralph S., assignor.)
- American Atomized Fuel Company. (See Whitaker, William H., assignor.)
- American Gas Company of New Jersey. (See Warner, Arthur W., assignor.)
- American Hard Rubber Co. (See Schelhammer, Herman, assignor.)
- American Hard Rubber Co. (See Wing, C. E., and Schelhammer, assignors.)
- American Hardware Corporation, The. (See Stone, Elmer B., assignor.)
- American Multigraph Company, The. (See Chisholm, Clifton, assignor.) (Reissue.)
- American Steel and Wire Company of New Jersey, The. (See Morrison, Max, assignor.)
- American Telephone and Telegraph Company. (See Espenschied, Lloyd, assignor.)
- American Woodworking Machinery Company. (See Foster, C. B., and Clement, assignors.)
- American Zinc, Lead & Smelting Company. (See Rossman, William F., assignor.)
- Anderson, Carl E., East Orange, assignor to Eastern Tool & Manufacturing Company, Bloomfield, N. J. Slide for the straps of garments. No. 1,423,639; July 25.
- Anderson, John H., St. Paul, Minn. Wagon tongue. No. 1,424,064; July 25.
- Anderson, William, Newark, N. J. Door lock and applying the same. No. 1,423,825; July 25.
- Andrusyszyn, Frank, Revloc, Pa. Car-seat construction. No. 1,423,508; July 25.
- Andrusyszyn, Frank, assignor of one-fourth to W. Klymk, Nanty Glo, and one-fourth to A. Senczak, Revloc, Pa. Sliding-door lock. No. 1,423,509; July 25.
- Anstie, Josiah, & Company. (See Pickering, Theodore H., assignor.)
- Arbetblatt, Abraham, Los Angeles, Calif. Steering gear for trailers. No. 1,424,129; July 25.
- Arbogast, Charles. (See Schaaf, John B., assignor.)
- Armington, Arthur A., et al., executors. (See Wardwell, Simon W.)
- Armitage, George H., Lincoln, assignor to United Lace & Braid Manufacturing Company, Auburn, Cranston, R. I. Machine for making shoe laces and the like. No. 1,423,984; July 25.
- Armstrong Cork Company. (See Lansill, John S., assignor.)
- Armstrong, Edwin H., Yonkers, N. Y. Signaling system. No. 1,424,065; July 25.
- Arnold, Edward E., Coventry, and P. St. Clair, jr., Providence, assignors to The Nitrogen Corporation, Providence, R. I. Conducting the ammonia-soda process. No. 1,423,510; July 25.
- Bach, Neils P., Millburn, N. J., assignor to Perfect Vacuum Canning Company, New York, N. Y. Apparatus for sealing containers. No. 1,423,591; July 25.
- Bagnulo, Alberto, Turin, Italy. Internal-combustion and hot-air engine. No. 1,423,705; July 25.
- Bahl, Errold G., Lincoln, Nebr. Aeroplane fuselage and building same. No. 1,424,066; July 25.
- Bailey, George C., Woodcliffe-on-Hudson, C. W. Fischer, Grantwood, N. J., and J. F. W. Schulze, Edgewood, Md., assignors to The Barrett Company. Purification of substances by distillation with a solvent. No. 1,424,138; July 25.
- Baker, James N., Brooklyn, assignor to R. Hoe and Co., New York, N. Y. Routing tool. No. 1,423,511; July 25.
- Baker, Walter C., assignor to Standard Parts Company, Cleveland, Ohio. Brake mechanism. No. 1,423,901; July 25.
- Baldwin, Frederic E., Philadelphia, Pa. Closure. No. 1,423,592; July 25.
- Baldwin, Frederic E., Philadelphia, Pa. Holder for hot-water-bottle stoppers. No. 1,423,593; July 25.
- Bankers Electric Protective Association. (See Crawford, Franklin E., assignor.)
- Banks, George L., Walnut Park, Calif. Aeroplane. No. 1,424,130; July 25.
- Banner Machine Company, The. (See Grove, Frank H., assignor.)
- Bardsley, Willard W., et al., executors. (See Wardwell, Simon W.)
- Barlow, Herndon O., Los Angeles, Calif. Automatic surf-breaking apparatus. No. 1,423,640; July 25.
- Barney, Philip, Dollard, Manitoba, Canada. Animal poke. No. 1,423,706; July 25.
- Barringer, Lawrence E., Schenectady, N. Y., assignor to General Electric Company. Cementing and protecting composition. No. 1,423,985; July 25.
- Barrett Company, The. (See Bailey, G. C., Fischer, and Schulze, assignors.)
- Barrett Company, The. (See Weisberg, L., and Potter, assignors.)
- Barrett Company, The. (See Williams, Arthur G., assignor.)
- Barrows, Harry E., assignor to Dillingham Manufacturing Company, Sheboygan, Wis. Folding chair. No. 1,423,594; July 25.
- Bartlett, Harry D., Chicago, Ill. Coal-handling device. No. 1,423,986; July 25.
- Bassette, John G. (See Hibbard, R. B., Watrous, and Bassette.)
- Batchelor, Harold, Jersey City, N. J. Locking means for nuts, bolts, and the like. No. 1,423,746; July 25.
- Bauer, Gustav, Hamburg, and F. Kramer, Blankenese-Dockenhusen, near Hamburg, Germany. Testing apparatus for indicating leaks. No. 1,423,902; July 25.
- Bausman, Edward H., Baltimore, Md. Illuminated marker. No. 1,423,641; July 25.
- Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pin retainer for tool holders. No. 1,423,595; July 25.
- Bayne, George G., Bushnell, Ill. Trough. No. 1,423,552; July 25.
- Beal, Carroll N. and F. C., San Francisco, Calif. Tractor driving and mechanism therefor. No. 1,423,642; July 25.
- Beal, Fay C. (See Beal, Carroll N. and F. C.)
- Beccari, Giuseppe, assignor to Società Anonima Brevetti Beccari, Florence, Italy. Apparatus for working garbage and refuse of towns. (Reissue.) No. 15,417; July 25.
- Bellamore, David H., and T. I. S. Boak, East Orange, N. J., assignor to Steel Wheel Corporation. Making pressed-steel vehicle wheels. No. 1,423,747; July 25.
- Bell, John E., Brooklyn, N. Y. Waste-heat economizer. No. 1,423,826; July 25.
- Bell Pump Company. (See Larkin, J. J., and Gordon, assignors.)
- Beman, Ralph, Cleveland, Ohio, assignor to General Electric Company. Gauge for lamps. No. 1,424,067; July 25.
- Benjamin, Dana H., Cleveland Heights, and A. R. Curtis, Cleveland, assignors to S. D. Guggenheim, Cleveland Heights, Ohio. Extractor. No. 1,423,827; July 25.
- Benson, Emil T., Chicago, Ill. Marking machine. No. 1,423,003; July 25.
- Berman, Henry, assignor of one-half to E. Erik, Ossining, N. Y. Sound box. No. 1,423,707; July 25.
- Berman, Wolf, New York, N. Y. Sectional inner strip for automobile tires. No. 1,423,748; July 25.
- Betry, Owen C. (See Lake, H. M., and Betry.)

- Beutel, Frederick C., et al. (See Ziegler, George J., assignor.)
- Biflex Products Company. (See Pancoast, W. G., and Grotenhuis, assignors.)
- Bingman, John, Mount Tabor, Wis. Attachment for hydrocarbon containers. No. 1,424,068; July 25.
- Blackmar, Fred W., assignor of one-half to L. M. Blackmar, Providence, R. I. Wrench. No. 1,424,069; July 25.
- Blackmar, Lewis M. (See Blackmar, Fred W., assignor.)
- Blakemore, Arthur H., St. Louis, Mo. Folding crate. No. 1,423,596; July 25.
- Blair, James B., deceased, Decatur, Ill.; O. M. Blair, administratrix. Automobile direction indicator. No. 1,424,070; July 25.
- Blair, Ora M., administratrix. (See Blair, James B.)
- Bliss, E. W., Company. (See Klocke, William, assignor.)
- Blum, Hosmer, San Francisco, assignor of one-half to B. C. Joy, Los Angeles, Calif. Meter. No. 1,423,597; July 25.
- Blyburg, Ogden F., St. Joseph, Mich. Shock absorber. No. 1,423,904; July 25.
- Boak, Thomas I. S. (See Bellamore, D. H., and Boak.)
- Boast, William F. (See Eshelman, O. D., and Boast.)
- Boerner, Arno, Scheveningen, Netherlands. System or method of feeding combustion engines for airships. No. 1,423,987; July 25.
- Boever, Alexis. (See Dutoit, Paul, assignor.)
- Boge, Adolf, Solingen, Germany. Lock. No. 1,423,553; July 25.
- Boileau, Walter K., Baltimore, Md., assignor to Pittsburgh Oil Refining Corporation. Transmission and motor oil. No. 1,423,512; July 25.
- Booty, Stanley S., London, England. Box and the like. No. 1,424,071; July 25.
- Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,424,072; July 25.
- Bowler, Elizabeth, Westport, S. Dak. Garment-supporting device. No. 1,423,749; July 25.
- Bowles, John H., New York, N. Y. Collapsible tire rim. No. 1,424,073; July 25.
- Boyce, Edward C., Washington, D. C. Vending apparatus. No. 1,424,074; July 25.
- Boykin, Burwell, Jr., Beaumont, Tex. Traveling block. No. 1,424,075; July 25.
- Brautigam, Anthony F., assignor of one-half to A. M. Rudiger, Buffalo, N. Y. Carrier for bottles, etc. No. 1,424,076; July 25.
- Braddy, Lewis P., San Francisco, Calif. Identification tender for vehicles. No. 1,423,905; July 25.
- Braham, Joseph M. (See Hetherington, H. C., and Braham.)
- Braxton, Elbert M., Fort Worth, assignor of one-half to M. R. Spellman, Dallas, Tex. Gas producer and process. No. 1,424,077; July 25.
- Brediceanu, Caius. (See Vuia, Trajan, assignor.)
- Brehmer, Herman C., Philadelphia, Pa., assignor to H. W. Butterworth and Son's Company. Valve device. No. 1,423,988; July 25.
- Brehmer, Herman C., Philadelphia, Pa., assignor to H. W. Butterworth & Son's Co. Atomizer. No. 1,423,989; July 25.
- Bremer, Alvin L. (See Bremer, Martin L. and A. L.)
- Bremer, Martin L. and A. L., Elberon, Iowa. Bin-filling shut-off. No. 1,423,990; July 25.
- Breitschneider, Josephine, St. Paul, Minn. Flower receptacle. No. 1,423,906; July 25.
- Brink, Carl A. (See Adell, E., and Brink.)
- Broadway, William, and T. C. Pledger, Oklahoma, Okla.; said Broadway assignor to said Pledger. Rim fastener. No. 1,424,078; July 25.
- Brombacher, Julius, Los Angeles, Calif. Pilot-light burner. No. 1,423,750; July 25.
- Brooks, George W., Topeka, Kans. Screed holder. No. 1,423,991; July 25.
- Brown, Charles A., Gardner, assignor, by mesne assignments, to Heywood-Wakefield Company, Boston, Mass. Combined hinge and stop for desk lids and the like. No. 1,423,513; July 25.
- Brown, Frederick S., Torrington, Conn. Soap-holding brush. No. 1,423,992; July 25.
- Brown, William S., Wallace, Idaho. Ore-separating device. No. 1,423,751; July 25.
- Bruun, Sigurd, Fredericksberg, Denmark. Mold for concrete beams. No. 1,423,708; July 25.
- Buchan, George, sr., Mansfield, Ohio. Chute support. No. 1,423,643; July 25.
- Buffalo Foundry & Machine Co. (See Engel, Godfrey, sr., assignor.)
- Buitrago, Rafael D., New York, N. Y. Suction duster. No. 1,423,993; July 25.
- Buley, Olga E., London, England. Hair slide. No. 1,423,644; July 25.
- Bullinger, Frederic H., Yonkers, N. Y., assignor to Ward Leonard Electric Company. Electric-controlling apparatus. No. 1,423,907; July 25.
- Bunde, William, Rochester, N. Y. Scooter car. No. 1,423,994; July 25.
- Bunnell, Harry C., Westport, N. Y. Convertible chair. No. 1,423,995; July 25.
- Burchard, Edith R. C., Little Compton, R. I. Robe for children's gacarts and invalid chairs. No. 1,423,908; July 25.
- Burford, Oliver L., and H. De'Bardeleben, Ensley, Ala. Winding shaft and chain guard for dump cars. No. 1,423,752; July 25.
- Burnham, Joseph L., Schenectady, N. Y., assignor to General Electric Company. Arc barrier for dynamo-electric machines. No. 1,423,996; July 25.
- Burris, James N., deceased, by H. E. Voss, administrator, Davenport, Iowa. Nonskid attachment for vehicle tires. (Reissue.) No. 15,418; July 25.
- Butler, Frank L., Chicago, Ill. Switch-supporting attachment for electric fixtures. No. 1,423,645; July 25.
- Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,423,646; July 25.
- Butterfield, Maurice A., Lowell, Mass. Circle-cutting tool. No. 1,423,828; July 25.
- Butterworth, H. W., and Son's Company. (See Brehmer, Herman C., assignor.)
- Butusov, William P., Norfolk, Va. Power plant. No. 1,423,514; July 25.
- Buxton, Incorporated. (See Buxton, Warner R., assignor.)
- Buxton, Warner R., Longmeadow, assignor to Buxton, Incorporated, Springfield, Mass. Key case. No. 1,423,909; July 25.
- By-Products Recovery Co., The. (See Mellott, Howard S., assignor.)
- Callier, Felix J., Brush, Colo. Automatic focusing device for enlarging cameras. No. 1,423,997; July 25.
- Camp, Arthur E., Binghamton, N. Y. Scaffold carrier. No. 1,423,998; July 25.
- Campbell, Howard B., Erie, Pa. Letter sheet. No. 1,423,910; July 25.
- Campbell, Philip A., Vancouver, British Columbia, Canada. Lawn mower. No. 1,423,999; July 25.
- Cancell, Charles E., Portland, Oreg., assignor of one-half to E. T. White, Everett, Wash. Poultry feeder. No. 1,424,079; July 25.
- Cardwell, Allen L., Rockville Center, assignor to Western Electric Company, Incorporated, New York, N. Y. Portable electric lantern. No. 1,423,911; July 25.
- Carlson, Julius, Brooklyn, N. Y. Cap. No. 1,423,829; July 25.
- Carpenter, Charles C., assignor to The Samuel C. Tatum Company, Cincinnati, Ohio. Filing tray or drawer. No. 1,424,080; July 25.
- Carson, Clarence, New Rochelle, N. Y., assignor to John-Manville Incorporated. Hub odometer. No. 1,424,000; July 25.
- Carter, Carnie B., and A. E. Cox, Pittsburgh, Pa., assignors, by mesne assignments, to S. Karpen & Bros. Producing active methylene bodies. No. 1,423,753; July 25.
- Carter, Wallace E., Dover, England. Convertible perambulator and push chair. No. 1,423,912; July 25.
- Carter, William C., St. Louis, Mo. Fuel-supply apparatus for internal-combustion engines. No. 1,423,913; July 25.
- Caspersson, Karl A. (See Gustafson, G., Jungmarker, and Caspersson.)
- Catterall, Albert B., Ottumwa, Iowa. Dust cap. No. 1,423,515; July 25.
- Central Union Trust Company of New York. (See Radford, George S., assignor.)
- Cerf, Lester, Brooklyn, N. Y. Heel fastener. No. 1,423,787; July 25.
- Charter, James A., Chicago, Ill. Metal disk wheel. No. 1,423,598; July 25.
- Chemical Construction Company. (See Hechenbleikner, I., and Oliver, assignors.)
- Chemical Machinery Corporation. (See Field, Crosby, assignor.)
- Chennour, John S. (See Schultz, John M., assignor.)
- Chicago Car Seal Company. (See Rogers, Harry R., assignor.)
- Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)
- Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)
- Chisholm, Clifton, assignor, by mesne assignments, to The American Multigraph Company, Cleveland, Ohio. Envelope-feeding mechanism. (Reissue.) No. 15,419; July 25.
- Christensen, Carl V. J., et al., executors. (See Wardwell, Simon W.)
- Christensen Machine Company. (See Christensen, Martin, assignor.)
- Christensen, Martin, assignor to Christensen Machine Company, Racine, Wis. Delivery mechanism for signature-stitching machines. No. 1,423,647; July 25.
- Christensen, Sander I., Willows, Calif. Rice-preservation process. No. 1,423,830; July 25.
- Christian, Bert W., Delavan, Wis. Tool. No. 1,424,001; July 25.
- Christie, Lewis D., Nichols, Conn., assignor to A. Oppenheim, New York, N. Y. Hose-supporter button and making same. No. 1,423,599; July 25.
- Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical arc welding. No. 1,423,914; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Desulphurizing oil. No. 1,423,710; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Desulphurizing oil. No. 1,423,712; July 25.
- Clancy, John C., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Producing gasoline and the like. No. 1,423,709; July 25.
- Clancy, John C., assignor to The Nitrogen Corporation, Providence, R. I. Obtaining sulphur compounds from mineral oils and the like. No. 1,423,711; July 25.

- Clark, James, assignor to J. R. Dresser Manufacturing Company, Bradford, Pa. Divided ring for pipe clamps and the like. No. 1,423,754; July 25.
- Clement, Benj. H., et al., executors. (See Foster, C. B., and Clement.)
- Clement, Frank H. (See Foster, C. B., and Clement.)
- Clement, Louisa S., et al., executors. (See Foster, C. B., and Clement.)
- Clement, Mary G., et al., executors. (See Foster, C. B., and Clement.)
- Cline, Martin L., and F. Herge, Malinta, Ohio. Clutch-lever retainer. No. 1,424,081; July 25.
- Clopton, Mortimer L., Wichita Falls, Tex. Ring gauge. No. 1,424,082; July 25.
- Cochrane, Charles H., New York, N. Y. Means for controlling the flow of fluids. No. 1,423,831; July 25.
- Cole, Albert L., Auburndale, assignor of one-fourth to F. J. V. Dakin, Newtonville, and one-fourth to F. A. Tilton, South Braintree, Mass. Shut-off valve for air-brake pipes. No. 1,424,083; July 25.
- Cole, Glandel, Poughkeepsie, N. Y. Clothesline adjuster. No. 1,424,084; July 25.
- Cole, John A., and L. J. Shorter, Coventry, England. Piston. No. 1,424,002; July 25.
- Commonwealth Steel Company. (See Howard, Karl S., assignor.)
- Condon, Joseph P., et al. (See Morton, William C., assignor.)
- Connelly, Charles B., Scotia, N. Y., assignor to General Electric Company. Control system. No. 1,424,003; July 25.
- Cooley, Fred W., Minneapolis, Minn. Tone modifier for phonographs. No. 1,423,832; July 25.
- Corn Products Refining Company. (See Spain, William, assignor.)
- Coxe, Albert E. (See Carter, C. B., and Coxe.)
- Craft, Clarence H., assignor of one-third to H. D. Hutchinson and one-third to J. Q. Adams, Uniontown, Pa. Electrically-lighted motor meter. No. 1,423,755; July 25.
- Craighead, Magruder, Hartsdale, N. Y., assignor to Johns-Manville Incorporated. Fastening means and applying same. No. 1,423,833; July 25.
- Crane, Adam L., Fort Mill, S. C. Cement tie and rail fastener. No. 1,423,600; July 25.
- Crawford, Franklin E., Winchester, assignor to Bankers Electric Protective Association, Boston, Mass. Detector for alarm system. No. 1,423,601; July 25.
- Crocan, Charles W., Bangor, Me. Latch release for tapes. No. 1,424,085; July 25.
- Crosbaw, Ralph S., Grand Rapids, Mich. Tail light and number plate. No. 1,423,648; July 25.
- Crooks, Roxie S. (See Jupp, A. E., and Crooks.)
- Crum, John M., Johnstown, Pa. Electric power jack. No. 1,423,834; July 25.
- Cummings, Andrew S., South Tacoma, Wash. Combined lock and alarm. No. 1,423,554; July 25.
- Cummings, Everett C., Electra, Tex. Pump. No. 1,424,004; July 25.
- Curtis, Arthur R. (See Benjamin, D. H., and Curtis.)
- Dakin, Francis J. V., et al. (See Cole, Albert L., assignor.)
- Daniel, David C., Apex, assignor of one-half to S. B. Shepherd, Raleigh, N. C. Fertilizer distributor. No. 1,423,649; July 25.
- Danziger, Abraham, New York, N. Y. Auxillary sheet gauge for platen presses. No. 1,423,825; July 25.
- Darrow, Burgess, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Pneumatic-tire tread. No. 1,424,131; July 25.
- David, Leoncio, Washington, D. C. Electric hair clipper. No. 1,423,756; July 25.
- Davidson, Charles E. (See Norlander, Charles A., assignor.)
- Davis, Arthur J., Cedar Rapids, Iowa. Stock feeder. No. 1,423,915; July 25.
- Davis, James, Gananoque, Ontario, Canada. One-man automobile top. No. 1,423,916; July 25.
- Dawson, Arthur T., Westminster, and J. Horne, Barrow-in-Furness, assignors to Vickers Limited, Westminster, England. Ordnance. No. 1,423,757; July 25.
- De Bardeleben, Hubert. (See Burford, O. L., and De Bardeleben.)
- De Borggrave, Felix, Chicago, Ill. Vehicle wheel and resilient tire therefor. No. 1,424,086; July 25.
- Decker, Lemuel B., Kenogami, Quebec, Canada. Paper-stock regulator. No. 1,423,555; July 25.
- Declave, Joseph, Liege, Belgium. Small arm comprising a striker sliding in a breech bolt. No. 1,423,836; July 25.
- Decuir, Joseph O., Houston, Tex. Oil burner. No. 1,423,650; July 25.
- Defiance Combination Auto Lock Corporation. (See Sokolov, Jacob, assignor.)
- De Gowin, Isaac, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Ball. No. 1,423,837; July 25.
- De Gowin, Isaac, assignor to The Seamless Rubber Company, Inc., New Haven, Conn. Method and apparatus for covering balls. No. 1,423,838; July 25.
- De Jaco, Charles A., Newport, Ky. Heating drum. No. 1,423,651; July 25.
- DeMarmol, Charles J., Frankford, Pa. Reproducer. No. 1,424,087; July 25.
- Denning, Joseph M., Denver, Colo., assignor, by mesne assignments, to General Ordnance Corporation, New York, N. Y. Tractor. (Reissue.) No. 15,420; July 25.
- Dentists' Supply Company. (See Duffy, Charles J., assignor.)
- Des Roches, Hilton H., assignor of one-half to M. J. Scott, Butte, Mont. Detachable bit for drills. No. 1,423,713; July 25.
- Detroit Vapor Stove Company. (See Sherman, Alvin G., assignor.)
- De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Dress guard. No. 1,423,602; July 25.
- Devolid, Orian F. (See Hopkins, R. F., and Devolid.)
- De Witt-La France Co. (See De Witt, W. P., and La France, assignors.)
- De Witt, William P., Somerville, and D. J. La France, assignors, by mesne assignments, to De Witt-La France Co., Cambridge, Mass. Pencil. No. 1,423,603; July 25.
- Diamant, Sidney, New York, N. Y. Punch and die set. No. 1,423,917; July 25.
- Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Tape reel. No. 1,423,516; July 25.
- Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)
- Dick, Joseph C. F., Stockton, Calif. Driving mechanism for tractors. No. 1,423,758; July 25.
- Dillingham Manufacturing Company. (See Barrows, Harry E., assignor.)
- Doble, John A., assignor to Doble Laboratories, San Francisco, Calif. Apparatus for controlling the flow of water to boilers. No. 1,423,759; July 25.
- Doble Laboratories. (See Doble, John A., assignor.)
- Dodge Brothers. (See Dodge, John F., assignor.)
- Dodge, John F., deceased, by M. R. Dodge, Detroit, and H. E. Dodge, Grosse Pointe, special administrators, assignors to Dodge Brothers, Detroit, Mich. Wheel and making the same. No. 1,423,556; July 25.
- Dodge, Herace E., et al., administrators. (See Dodge, John F.)
- Dodge, Matilda R., et al., administrators. (See Dodge, John F.)
- Doherty Research Company. (See Greenfield, Benjamin, assignor.)
- Doloukhanoff, Michel, Charlottenburg, Germany. Device for automatically controlling the output of electrical plants. No. 1,423,839; July 25.
- Drefs, Edward, Milwaukie, Oreg. Bed-bottom fabric. No. 1,423,918; July 25.
- Dreher, Frank A., Dover, Ohio. Connecting rod. No. 1,423,788; July 25.
- Dresser, S. R., Manufacturing Company. (See Clark, James, assignor.)
- Drum, Charles, California, Pa. Automatic gate mechanism for elevator and mine shafts. No. 1,423,919; July 25.
- Drury, Frank, Aintree, Liverpool, assignor to G. H. Williamson & Sons, Limited, Worcester, England. Manufacture of blanks of sheet metal. No. 1,424,005; July 25.
- Duff, Vern W., Moberly, Mo. Device for holding engineers' time tables. No. 1,423,920; July 25.
- Duffy, Charles J., Yonkers, N. Y., assignor to Dentists' Supply Company. Mold guide for artificial teeth. No. 1,423,921; July 25.
- Durbin, Frederick A., assignor of one-half to J. F. Maday, Evansville, Ind. Permutation padlock. No. 1,423,840; July 25.
- Dutoit, Paul, assignor of one-third to A. Boever, Lausanne, Switzerland. Manufacture of brass. No. 1,423,922; July 25.
- Eastern Tool & Manufacturing Company. (See Anderson, Carl E., assignor.)
- Eckert, James C., Jr., Stamford, Conn. Diving apparatus. No. 1,423,923; July 25.
- Edmondson, Ralph S., Elizabeth, N. J., assignor to American Abrasive Metals Company. Plate for resisting flame and cutting tools. No. 1,423,652; July 25.
- Edwards, Edwin L., assignor to Edwards X-Ray Corporation, Indianapolis, Ind. Adjustable X-ray tube holder. No. 1,423,924; July 25.
- Edwards, Karl B., Eltham, London, England. Manufacture of arsenical compounds. No. 1,424,006; July 25.
- Edwards, William W., Los Angeles, Calif. Bumper bar fender. No. 1,423,604; July 25.
- Edwards X-Ray Corporation. (See Edwards, Edwin L., assignor.)
- Eickoff, Henry J., Hamilton, Ontario, Canada. Envelope. No. 1,423,653; July 25.
- Einsiedel, Stanley F. E. (See Robbins, G. A. H., and Einsiedel.)
- Electric Water Sterilizer and Ozone Company. (See Hartman, Harry B., assignor.)
- Elmendorf, Armin, Madison, Wis. Tearing tester. No. 1,423,841; July 25.
- Elmendorf, Armin, Chicago, Ill. Tearing tester. No. 1,423,842; July 25.
- Emerson Phonograph Company. (See Emerson, Victor H., assignor.)
- Emerson, Victor H., New York, N. Y., assignor to Emerson Phonograph Company, Inc., Laminated talking-machine record. No. 1,423,517; July 25.
- Engel, Godfrey, sr., Brooklyn, assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Casting process. No. 1,423,654; July 25.
- Erickson, Anton F., Phillipsburg, Pa. Attachment for aeroplanes. No. 1,423,789; July 25.

- Ericson, Louis E., assignor to W. S. Rench, San Diego, Calif. Price-tag holder. No. 1,423,655; July 25.
- Erik, Emil. (See Berman, Henry, assignor.)
- Eshelman, Oliver D., and W. F. Boast, Casper, Wyo. Saw. No. 1,423,843; July 25.
- Espenschied, Lloyd, Queens, N. Y., assignor to American Telephone and Telegraph Company. Frequency regulator. No. 1,423,518; July 25.
- Etchebèhère, Jeanty, Biarritz, Basses-Pyrenees, France. Receiver and stench trap for sewers. No. 1,423,925; July 25.
- Faccioli, Giuseppe, Pittsfield, Mass., assignor to General Electric Company. Voltage-regulating system. No. 1,423,926; July 25.
- Fairchild, Walter L., New York, N. Y. Vulcanizing pneumatic tubes. No. 1,423,760; July 25.
- Fairchild, Walter L., New York, N. Y. Mold for pneumatic tubes and similar articles. No. 1,423,761; July 25.
- Fairmont Gas Engine & Railway Motor Car Company. (See Kasper, Walter F., assignor.)
- Falk, Andrew, Pittsburgh, assignor of three-tenths to M. Pfaff, Homestead, Pa. Fitting for railways and the like. No. 1,423,927; July 25.
- Falk, Hilbert L., New Orleans, La., assignor to L. D. Wood, Philadelphia, Pa. Composition for coating metals for the purpose of permitting electric currents to operate by the action of light. No. 1,424,088; July 25.
- Fallon, Andrew J., Chicago, Ill. Lock. No. 1,423,656; July 25.
- Farkas, Eugene J., Detroit, assignor to Ford Motor Company, Highland Park, Mich. Detachable tread for tractor wheels. No. 1,423,519; July 25.
- Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pneumatic cut-out device. No. 1,424,007; July 25.
- Faultless Caster Company. (See Noetting, William H., assignor.)
- Fenelon, Martin J., Chicago, Ill. Vehicle washing machine. No. 1,423,844; July 25.
- Field, Crosby, Washington, D. C., assignor to Chemical Machinery Corporation, New York, N. Y. Drying process and apparatus. No. 1,423,928; July 25.
- Findura, John, assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Rail-fastening device for beds and the like. No. 1,424,089; July 25.
- Firth, Carrodus V. (See Hill, W. E., and Firth.)
- Fischer, Charles W. (See Bailey, G. C., Fischer, and Schulze.)
- Fish, Alfred E., Chicago, Ill. Shipping tag. No. 1,423,557; July 25.
- Fisk Rubber Company, The. (See Fording, William G., assignor.)
- Fitz-Empire Double Pivot Last Company. (See Schelter, John C., assignor.)
- Fleischer, Paul W., Weehawken, N. J. Washer. No. 1,424,008; July 25.
- Flis, Alexander, Milwaukee, Wis. Vegetable-stem remover and crusher. No. 1,423,790; July 25.
- Fogel, Martin. (See Thomas, H. M., and Fogel.)
- Ford Motor Company. (See Farkas, Eugene J., assignor.)
- Ford Motor Company. (See Galamb, Joseph, assignor.)
- Fording, William G., Cleveland, Ohio, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Method of and apparatus for forming a tire bead. No. 1,423,929; July 25.
- Fort Pitt Bedding Company. (See Findura, John, assignor.)
- Foss, Herbert D., Brookline, assignor to H. D. Foss & Company, Inc., Cambridge, Mass. Dispensing and display holder for confectionery. No. 1,423,845; July 25.
- Foss, H. D., Company. (See Foss, Herbert D., assignor.)
- Foster, Chester B., and F. H. Clement, deceased, Rochester, N. Y.; L. S. Clement, M. G. Clement, and B. H. Clement, executors; said executors assignors of the entire right of said F. H. Clement, deceased, to American Woodworking Machinery Company; said Foster assignor of his entire right to American Woodworking Machinery Company, Rochester, N. Y. Feeding chain for woodworking and other machines. No. 1,424,090; July 25.
- Foster Machine Company. (See McKean, John O., assignor.)
- Fountain, Claude R., Macon, Ga. Radioelectron oscillator. No. 1,424,091; July 25.
- Fowler, George R., Marlboro, N. Y. Basket handle and lid fastener. No. 1,424,009; July 25.
- Francisco, Cary, Porterville, Calif. Stitch clipper for scissors. No. 1,423,791; July 25.
- Franzen, Charles F., Chaska, Minn. Clothesline support. No. 1,423,762; July 25.
- Frederick, Bernhard O., Hibbing, Minn. Vehicle brake. No. 1,423,846; July 25.
- Freedman, Benjamin H., New York, N. Y. Paper fastener. No. 1,423,520; July 25.
- Freile, Bruce, Bogota, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone switchboard apparatus. No. 1,423,930; July 25.
- French, Edward H., Columbus, Ohio. Making dry soluble lime-sulphur composition. No. 1,423,605; July 25.
- Frost Manufacturing Company. (See Theelen, Oscar H., assignor.)
- Fry, William P., Marble Falls, Tex. Milk or cream cabinet. No. 1,423,714; July 25.
- Fuhrer, Daniel J., Leanna Township, Logan County, Ill. Truck attachment for automobiles. No. 1,423,931; July 25.
- Fuller, Leonard F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Electrical oscillation generator. No. 1,424,141; July 25.
- Gagg, Anton. (See Zoelly, H., and Gagg.)
- Gains, Chester R., Colfax, assignor of one-half to S. A. Potts, Muscatine, Iowa. Call clock. No. 1,424,092; July 25.
- Galamb, Joseph, Detroit, assignor to Ford Motor Company, Highland Park, Mich. Door buffer. No. 1,423,521; July 25.
- Gallagher, Richard D., jr., Flatbush, assignor to Standard Coupler Company, New York, N. Y. Yielding resistance unit for car buffers. No. 1,423,522; July 25.
- Garner, Perry I., Eureka, Kans. Corn planter. No. 1,423,932; July 25.
- Gelnaw, John F., Cleveland, Ohio. Identification and coding system. No. 1,423,763; July 25.
- General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)
- General Dental Mfg. Co. (See Sibley, A. H., and Van Allen, assignors.)
- General Electric Company. (See Barringer, Laurence E., assignor.)
- General Electric Company. (See Beman, Ralph, assignor.)
- General Electric Company. (See Burnham, Joseph L., assignor.)
- General Electric Company. (See Connely, Charles B., assignor.)
- General Electric Company. (See Faccioli, Giuseppe, assignor.)
- General Electric Company. (See Haworth, Lawrence A., assignor.)
- General Electric Company. (See Mitchell, L. E., and White, assignors.)
- General Electric Company. (See Mittag, Albert H., assignor.)
- General Electric Company. (See Murphy, Edwin J., assignor.)
- General Electric Company. (See Weintraub, Ezechiel, assignor.)
- General Ordnance Corporation. (See Denning, Joseph M., assignor.) (Reissue.)
- General Rubber Company. (See Hopkinson, Ernest, assignor.)
- Gibbons, Sherwin, et al. (See Ziegler, George J., assignor.)
- Gibson, Ralph E., and H. Nicoll, Liverpool, England. Discharge chute. No. 1,424,010; July 25.
- Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
- Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Sled. No. 1,424,011; July 25.
- Gillet, Alexis F., assignor to Jubilee Manufacturing Company, Omaha, Nebr. Oil-level-indicating attachment for crank cases. No. 1,423,558; July 25.
- Gilman, John A., American Lake, Wash. Excavator. No. 1,424,093; July 25.
- Gordon, Robert L. (See Larkin, J. J., and Gordon.)
- Goodyear Tire & Rubber Company, The. (See Darrow, Burgess, assignor.)
- Goodrich, B. F., Company, The. (See Hennessy, James F., assignor.)
- Goodyear Tire & Rubber Company, The. (See Johnson, Neal M., assignor.)
- Goodyear Tire & Rubber Company, The. (See Litchfield, Paul W., assignor.)
- Goodyear Tire & Rubber Company, The. (See Orr, Clifford B., assignor.)
- Gowdy, Edward J., Buffalo, N. Y. Printing press. No. 1,423,792; July 25.
- Grand Rapids Refrigerator Company. (See Leonard, Charles H., assignor.)
- Greene, Herbert M., Portland, Oreg. Cooking grain and a product for effecting the same. No. 1,424,132; July 25.
- Greenfield, Benjamin, Bartlesville, Okla., assignor, by mesne assignments, to Doherty Research Company. Oil-fired steam boiler. No. 1,423,764; July 25.
- Green Engineering Company. (See Poppenhusen, Herman A., assignor.)
- Green, Paul G., Marshall, Mich. Pipe wrench. No. 1,423,793; July 25.
- Greer, J. E., et al. (See Macmanus, Augustus F. W., assignor.)
- Gregory, Thomas, Cleveland, Ohio. Hairpin. No. 1,423,606; July 25.
- Groat, Daniel F., Fort Dodge, Iowa. Tire operated multiple air pump. No. 1,423,607; July 25.
- Grossmann, Robert, assignor to The Will & Baumer Candle Company, Syracuse, N. Y. Candle-making machine. No. 1,423,608; July 25.
- Grotenhuis, William J. (See Pancoast, W. G., and Grotenhuis.)
- Grove, Frank H., assignor to The Banner Machine Company, Columbiana, Ohio. Trimming device. No. 1,424,012; July 25.
- Grow, Thomas S., Allentown, Pa. Brush for talking machines. No. 1,423,523; July 25.
- Grubenmann, Max, Zurich, assignor to Aluminum-Schweisswerk A. G., Schlieren, Switzerland. Heat-exchange device for treating milk, worts, and the like. No. 1,423,794; July 25.

ALPHABETICAL LIST OF PATENTEES.

V

- Grudzinski, Stanislaw. (See Piernikowski, W., and Grudzinski.)
- Guerlich, Frederick C., Stamford, Conn. Fluid-pump mechanism. No. 1,423,559; July 25.
- Guggenbuehler, Carl, Newark, N. J. Tool for facilitating the adjustment of the driving shoes of locomotives. No. 1,423,795; July 25.
- Guggenheim, Solomon D. (See Benjamin, D. H., and Curtis, assignors.)
- Gunn, Robert W., and W. A. S. Thompson, Los Angeles, Calif. Valve seat. No. 1,424,094; July 25.
- Gustafson, Gunnar, Avesta, A. A. Jungmarker, Stockholm, and K. A. Caspersson, Engelsberg, Sweden. Producing silicon-manganese-chrome steel. No. 1,423,847; July 25.
- Haines, Charles B., Indianapolis, Ind. Water softener. No. 1,423,657; July 25.
- Haines, Samuel R., et al. (See Malloy, James T., assignor.)
- Haislip, Pliny L., Washington, D. C. Electric-lighting fixture. No. 1,424,095; July 25.
- Hale, Methel F., Grover Hill, Ohio. Creeper bib. No. 1,424,013; July 25.
- Hall, John G., Toronto, Ontario, Canada. Milk bottle. No. 1,423,560; July 25.
- Hall, Orrin B., Oatville, Kans. Grain carrier. No. 1,423,609; July 25.
- Hamann, Friedrich W. H., Hamburg, Germany. Car coupling. No. 1,423,796; July 25.
- Hand, Louis H. B., Harvey, Ill. Spring guard for vehicles. No. 1,424,014; July 25.
- Hanes, S. B., et al. (See Johnson, Adolph A., assignor.)
- Hanlon, John H., Somerville, Mass. Drifting valve. No. 1,423,797; July 25.
- Hansemann, Richard A. (See Kucharski, Stanislaus, assignor.)
- Hansen, Charles E., Providence, R. I. Pencil attachment. No. 1,424,096; July 25.
- Hansen, Sofus E., Seattle, Wash. Device for launching ring life buoys. No. 1,423,561; July 25.
- Harder, Harry E. (See Newsom, J. N., and Harder.)
- Harper, Joseph H., Springfield, Ohio. Coffin. No. 1,423,848; July 25.
- Hartman, Harry B., assignor to Electric Water Sterilizer and Ozone Company, Scottsdale, Pa. Ozone generator. No. 1,423,658; July 25.
- Harrington, Timothy. (See Staples, Willard G., assignor.)
- Harrison Radiator Corporation. (See Wolfe, Arthur P., assignor.)
- Hassel, Nels H., Los Angeles, Calif. Plant protector. No. 1,423,659; July 25.
- Hastings, Charles B., New York, N. Y. Loading and unloading apparatus. No. 1,423,765; July 25.
- Hastings, Herbert J., and C. S. Smith, East Twickenham, England. Mechanical toy operated by gramophones. No. 1,424,015; July 25.
- Hawkesworth, Arthur L., Butte, Mont. Drill. No. 1,423,849; July 25.
- Haworth, Lawrence A., Dalton, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,424,016; July 25.
- Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,423,610; July 25.
- Hayes, John, Belle Vernon, Pa. Aeroplane. No. 1,423,611; July 25.
- Heatlie, William C., Beverly, Mass. Clamp. No. 1,423,933; July 25.
- Hebebrand, George H. (See Neal, B., and Hebebrand.)
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,423,766; July 25.
- Hechenbleikner, Ingenuin, and T. C. Oliver, Charlotte, N. C., assignors to Chemical Construction Company, New York, N. Y. Treating sludge acids. No. 1,423,767; July 25.
- Heckler, William P., Napoleon, Ohio. Fencepost. No. 1,423,934; July 25.
- Hedberg, John A., assignor to The South Side Manufacturing Company, Denver, Colo. Animal trap. No. 1,423,715; July 25.
- Hedges, Edward E., New York, N. Y. Distilling shale. No. 1,423,716; July 25.
- Held, Christ, et al. (See Siegfried, Joseph, assignor.)
- Held, Joseph, et al. (See Siegfried, Joseph, assignor.)
- Hellstrom, Carl R., Minneapolis, Minn. Bag holder. No. 1,424,017; July 25.
- Hem, Halvor O., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale. No. 1,423,660; July 25.
- Hemphill Company. (See Bosworth, George P., assignor.)
- Hemphill Company. (See Lawson, John, assignor.)
- Henderson, George K., assignor to International Printing Company, Indianapolis, Ind. Carton sealer. No. 1,424,018; July 25.
- Henderson, John J., et al. (See Malloy, James T., assignor.)
- Henderson, Olive G., Detroit, Mich. Desk and chair. No. 1,423,661; July 25.
- Henggi, Lewis O., Oakmont, Pa., assignor to The P. & M. Company, Chicago, Ill. Creep check. (Reissue.) No. 1,421; July 25.
- Hennessy, James F., Akron, Ohio, assignor to The B. K. Goodrich Company, New York, N. Y. Fabric-cutting apparatus. No. 1,423,798; July 25.
- Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,423,850; July 25.
- Hennessy, James J., New York, N. Y. Journal lubricator. No. 1,423,851; July 25.
- Henry Wilhelm Company. (See Maussner, Frederick, assignor.)
- Herge, Frank. (See Cline, M. L., and Herge.)
- Herman, John, Los Angeles, Calif. Water-cooled bearing. No. 1,424,097; July 25.
- Herman, Karl, Chester, Pa. Pump. No. 1,423,852; July 25.
- Hernacki, John. (See Landgraf, C., and Hernacki.)
- Hetherington, Harry C., and J. M. Braham, Washington, D. C. Making dicyandiamide. No. 1,423,799; July 25.
- Hewitt, Edward R., Midvale, N. J. Radiator for vehicles. No. 1,423,662; July 25.
- Heywood-Wakefield Company. (See Brown, Charles A., assignor.)
- Hibbard, Rhuel B., D. J. Watrous, and J. G. Bassette, assignors to Aldry Corporation, Groton, N. Y. Drying apparatus. No. 1,423,800; July 25.
- Hicks, Elias S., Yakima, Wash. Current motor. No. 1,423,717; July 25.
- Hill, Nikalai, Park Falls, Wis. Car-door lock. No. 1,423,562; July 25.
- Hill, William E., Philadelphia, and C. V. Firth, Ashbourne, assignors to Porter Brothers Textile Company, Philadelphia, Pa. Woven tubular fabric. No. 1,423,524; July 25.
- Hill, William H., Manati, P. R. Kerosene vaporizer. No. 1,424,142; July 25.
- Hines, Robert E., New York, N. Y., assignor to New Jersey Silk Machinery Company, Paterson, N. J. Spinning, doubling, and twisting machine. No. 1,423,801; July 25.
- Hively, Hal H., Tar River, Okla. Sectional tire rim. No. 1,424,019; July 25.
- Hoe, R., and Co. (See Baker, James N., assignor.)
- Hodgson, Carl W., Chicago, Ill. Mixing and conveying apparatus. No. 1,423,853; July 25.
- Hofstatter, Ernest W., Nyack, N. Y. Ear trumpet for truck drivers. No. 1,423,802; July 25.
- Holdaway, William S., Salt Lake City, Utah. Pump. No. 1,423,768; July 25.
- Holmes, Grant. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- Hopkins, Richard F., and O. F. Devold, Bartlesville, Okla. Pump. No. 1,423,935; July 25.
- Hopkinson, Ernest, New York, N. Y., assignor to General Rubber Company. Treating rubber-containing latex. No. 1,423,525; July 25.
- Hopkinson, Ernest, New York, N. Y., assignor to General Rubber Company. Product obtained from rubber-containing latex. No. 1,423,526; July 25.
- Hopkinson, Ernest, New York, N. Y. Production of fabrications of rubber and filamentary material and products obtained therefrom. No. 1,424,020; July 25.
- Hoppe, Oscar, assignor to R. A. Kempin, Rorschach, Switzerland. Rigid milling machine. No. 1,423,563; July 25.
- Hooker Electrochemical Company. (See Stuart, Kenneth E., assignor.)
- Horne, James. (See Dawson, A. T., and Horne.)
- Howard, Harry G., Greenwich, N. Y. Tractor wheel. No. 1,424,098; July 25.
- Howard, Karl S., assignor to Commonwealth Steel Company, St. Louis, Mo. Sand feeder. No. 1,423,854; July 25.
- Hubbard, James R., Duncan, Okla. Breast-actuating mechanism for cotton gins. No. 1,424,021; July 25.
- Huff, Daland & Company. (See Post, George B., assignor.)
- Huffman, Samuel C., Lincoln, Nebr. Storage file. No. 1,423,936; July 25.
- Hunt, Nannie K., Adolphus, Ky. Collapsible shipping container. No. 1,424,099; July 25.
- Hurst, William C., New York, N. Y. Steering wheel for aeroplanes. No. 1,424,143; July 25.
- Hutchinson, Harmer D., et al. (See Craft, Clarence H., assignor.)
- Ideal Rim Tool Co. (See Peterson, Peter R., assignor.)
- Ilford Limited. (See Agnew, A. J., and Renwick, assignors.)
- Illig, George D., Depew, N. Y. Wrench. No. 1,423,803; July 25.
- Industrial Process Engineering Company, The. (See Johns, George M., assignor.)
- Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
- International Printing Company. (See Henderson, George K., assignor.)
- Irons, George C., McKittrick, and A. Larson, Bakersfield, Calif. Tubing bleeder. No. 1,423,937; July 25.
- Isachson, Norman, Albion, Idaho. Internal-combustion engine. No. 1,423,718; July 25.
- Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Crib. No. 1,423,663; July 25.
- Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Bed corner. No. 1,423,664; July 25.
- Izen, Alexander, assignor to Smith & Davis Mfg. Co., St. Louis, Mo. Bed corner. No. 1,422,665; July 25.
- Jackson, Walter M., New York, N. Y. Slitting attachment for cigars. (Reissue.) No. 15,422; July 25.
- Jacobs, Nicholas W., Stanton, Nebr. Number plate for motor-vehicle fuel tanks. No. 1,423,938; July 25.
- Jacoby, Benjamin. (See King, George W., and C. S. Jacoby, Roush, and Holmes.)
- Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Stable foam for preventing the evaporation of stored liquids. No. 1,423,719; July 25.

- Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Foam covering for preventing the evaporation of stored liquids. No. 1,423,720; July 25.
- Jennings, James M., Elizabeth, assignor to Standard Oil Company, Bayonne, N. J. Foam covering for preventing the evaporation of stored liquids. No. 1,423,721; July 25.
- Jester, Marvin H., Philadelphia, Pa. Plaster-board support. No. 1,423,939; July 25.
- Jett, George C., Watertown, assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Differential transmission mechanism. No. 1,423,940; July 25.
- Jett, George C., assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Differential mechanism. No. 1,423,941; July 25.
- Jewett, Harold H., Puente, Calif. Camp utensil. No. 1,423,612; July 25.
- Johns, George M., St. Louis, Mo., assignor, by mesne assignments, to The Industrial Process Engineering Company. Distillation of material carrying a percentage of volatile matter. No. 1,423,527; July 25.
- Johns-Manville Incorporated. (See Carson, Clarence, assignor.)
- Johns-Manville Incorporated. (See Craighead, Magruder, assignor.)
- Johnson, Adolph A., assignor of one-fifth to S. B. Hanes and one-fifth to D. A. Ricks, Hanes, N. C. Attachment for cone-winding machines. No. 1,424,100; July 25.
- Johnson, Carl, San Francisco, Calif. Resilient wheel. No. 1,424,101; July 25.
- Johnson, George, Brier Hill, Pa. Agitating and dumping bucket. No. 1,424,102; July 25.
- Johnson, Harold R., Edgewood, assignor to Oscar R. Johnson Company, Cranston, R. I. Lingerie clasp. No. 1,424,103; July 25.
- Johnson, Morrison R., Braymer, Mo. Nonskid chain. No. 1,423,564; July 25.
- Johnson, Neal M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Cutting apparatus. No. 1,424,133; July 25.
- Johnson, Omar, Laramie, Wyo. Locomotive-engineer's seat. No. 1,423,855; July 25.
- Johnson, Oscar R., Company. (See Johnson, Harold R., assignor.)
- Jones, Joseph H., Cleburne, Tex. Demountable tire rim. No. 1,423,942; July 25.
- Jones, Thomas B., Turlock, Calif. Piston ring. No. 1,423,943; July 25.
- Jones, William L., Gallipolis, Ohio. Can-filling apparatus. No. 1,423,944; July 25.
- Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for working uppers over lasts. No. 1,423,613; July 25.
- Joyce, Bryan P., Washington, D. C. Gun retracting mechanism. No. 1,424,105; July 25.
- Joy, Bryon C. (See Blum, Hosmer, assignor.)
- Joy, Marshall W., San Francisco, Calif. Visible fluid gauge. No. 1,424,104; July 25.
- Jubilee Manufacturing Company. (See Gillet, Alexis F., assignor.)
- Jungmarker, Axel A. (See Gustafson, G., Jungmarker, and Caspersson.)
- Jupp, Alfred E., and R. S. Crooks, assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Delivery mechanism for rolling mills. No. 1,423,856; July 25.
- Kampmann, George A., Brainerd, Minn. Waterproofing device. No. 1,423,857; July 25.
- Karpen, S., & Bros. (See Carter, C. B., and Cox, assignors.)
- Kasper, Walter F., assignor to Fairmont Gas Engine & Railway Motor Car Company, Fairmont, Minn. Throttle valve. No. 1,423,858; July 25.
- Kellogg Switchboard and Supply Company. (See Yanchowski, George A., assignor.)
- Kemp, William, St. Louis, Mo. Pressure or draft gauge. No. 1,423,565; July 25.
- Kempin, Richard A. (See Hoppe, Oscar, assignor.)
- Kendall, Myron A., assignor to Stephens-Adamson Mfg. Co., Aurora, Ill. Self-training belt conveyor. No. 1,423,528; July 25.
- Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Connecting rod for drills, etc. No. 1,423,614; July 25.
- King, Charles B. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- King, George W., deceased, by S. King, executrix, C. B. King, B. Jacoby, H. E. Roush, Marion, Ohio, and G. Holmes, Danville, Ill., assignors to The Marion Steam Shovel Co., Marion, Ohio. Level indicator for platforms. No. 1,423,529; July 25.
- King, Gustave A., Chicago, Ill. Toy. No. 1,423,566; July 25.
- King, Sarah, executrix. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- Kister, Herman, Elizabeth, N. J. Piston. No. 1,423,615; July 25.
- Kistner, Herman, Elizabeth, N. J. Piston. No. 1,423,616; July 25.
- Klocke, William, Woodhaven, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,423,617; July 25.
- Klocke, William, New York, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press. No. 1,423,769; July 25.
- Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Diestock. No. 1,423,945; July 25.
- Konigsberg, Joseph, assignor to L. Konigsberg, New York, N. Y. Shock absorber. No. 1,423,946; July 25.
- Konigsberg, Lena. (See Konigsberg, Joseph, assignor.)
- Kontorowitz, Carl, Rochester, N. Y. Drawer attachment for beds. No. 1,423,804; July 25.
- Kopplin, Walter H. (See Kramer, J., Kuehne, and Kopplin.)
- Kramer, Fritz. (See Bauer, G., and Kramer.)
- Kramer, Julius, R. O. Kuehne, jr., and W. H. Kopplin, assignors to Puhlan Davenport and Upholstered Furniture Company, Chicago, Ill. Power truck. No. 1,423,947; July 25.
- Krum, Gustav, Duisburg-Beeck, Germany. Time recorder. No. 1,423,805; July 25.
- Kucharski, Stanislaus, Charlottenburg, near Berlin, assignor to R. A. Hansemann, Berlin, Germany. Cinematographic film. No. 1,423,770; July 25.
- Kuehne, Fred O., jr. (See Kramer, J., Kuehne, and Kopplin.)
- Kuhn, James B., Cameron, W. Va. Automatic stop for moving-picture machines. No. 1,423,948; July 25.
- Kunkel, Bert, Hart, Mich. Battery cover. No. 1,424,144; July 25.
- La Bombard, Leon E., Chelsea, and M. H. Sidebotham, Cliftondale, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Top gluer. No. 1,423,567; July 25.
- Lackey, Joseph C., Long Branch, N. J. Figure toy. No. 1,423,618; July 25.
- Lacoste, Patrick, San Antonio, Tex. Sink strainer. No. 1,424,022; July 25.
- La France, David J. (See De Witt, W. P., and La France.)
- Lake, Fred O., Parke Lane, Va. Clothesline hanger. No. 1,423,530; July 25.
- Lake, Harry M., and O. C. Betry, Los Angeles, Calif. Automobile theft signal. No. 1,424,106; July 25.
- Lamb, Charles C., assignor of one-half to W. M. McEwen, Chicago, Ill. Driving mechanism for washing machines. No. 1,423,531; July 25.
- Landgraf, Charley, and J. Hernacki, Chicago, Ill. Record wiper for phonographs. No. 1,424,023; July 25.
- Langhaar, Louis, Cincinnati, Ohio. Ball bearing. No. 1,423,666; July 25.
- Lansill, John S., assignor to Armstrong Cork Company, Lancaster, Pa. Steel gauge. No. 1,423,859; July 25.
- Larkin, John J., St. Louis, Mo., and R. L. Gordon, assignors to Bell Pump Company, Bartlesville, Okla. Oil-well pump. No. 1,423,860; July 25.
- Larsen, Berdie A., Pasadena, Calif. Envelope. No. 1,424,024; July 25.
- Larson, Albert. (See Irons, G. C., and Larson.)
- Lathrop, Harry D. (See Paulson, Walter H., assignor.)
- Laughlin, Edward A., Port Arthur, Tex. Building construction. No. 1,423,949; July 25.
- Lawson, John, Central Falls, R. I., assignor, by mesne assignments, to Hemphill Company. Automatic tension-controlling means for knitting machines. No. 1,424,025; July 25.
- Lebelter, William F., assignor, by mesne assignments, to E. M. Miller, Elizabethtown, Pa. Electric heating device. No. 1,423,806; July 25.
- Lehr, Emmett S., Salt Creek, Wyo. Shock absorber. No. 1,423,667; July 25.
- Leiken, Philip, Brooklyn, assignor to Peerless Smoking Jacket Company, New York, N. Y. Knickers. No. 1,423,668; July 25.
- L'Enfant, Charles, New York, N. Y. Bill fold. No. 1,423,669; July 25.
- Leon, Karl O., Stockholm, assignor to Nordiska Kullager Aktiebolaget, Gottenborg, Sweden. Antifriction ball or roller bearing. No. 1,423,950; July 25.
- Leonard, Charles H., assignor to Grand Rapids Refrigerator Company, Grand Rapids, Mich. Refrigerator. No. 1,423,532; July 25.
- Levene, Albert H., Philadelphia, Pa. Locking mechanism for shelving and other articles. No. 1,423,861; July 25.
- Levy, William, Paterson, N. J. Traction lug. No. 1,423,568; July 25.
- Lewis, Lloyd V., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling system. No. 1,423,862; July 25.
- Litchfield, Paul W., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Building tires of the solid type. No. 1,424,134; July 25.
- Lockhart, James A., assignor to Pitho Plastic Board Company, Inc., Buffalo, N. Y. Wall board and plaster composition adapted thereto. No. 1,423,859; July 25.
- Locomotive Company, The. (See Roos, Delmar G., assignor.)
- Locomotive Company, The. (See Winblad, Niklas, assignor.)
- Locomotive Stoker Company. (See Lower, Nathan M., assignor.)
- Loman, John, Bristol, Conn. Watch-chain fastener. No. 1,424,139; July 25.
- Loomis, Everts G., Newark, N. J. Ball-winding machine. No. 1,423,807; July 25.

- Loomis, Evarts G., Newark, assignor to The Okonite Company, Passaic, N. J. Loom. No. 1,423,619; July 25.
- Loomis, Merton W. (See Newman, V. F., and Loomis.)
- Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Locomotive stoker. No. 1,423,533; July 25.
- Lowthorp, William M., Summertown, Tenn. Window lock. No. 1,424,107; July 25.
- Lucabaugh, John W., near Hanover, Pa. Folding crate. No. 1,423,863; July 25.
- Lucey Manufacturing Corporation. (See Zilen, Victor W., assignor.)
- Lurtz, John, Chicago, Ill. Pedestal. No. 1,423,951; July 25.
- Luthy, Joseph O., San Antonio, Tex. Hydrometer. No. 1,424,108; July 25.
- Lyon, George A., Philadelphia, Pa. Resilient front buffer. No. 1,423,570; July 25.
- Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,423,571; July 25.
- Lyon, George A., Philadelphia, Pa. Automobile buffer. No. 1,423,572; July 25.
- Lyon, George A., Philadelphia, Pa. Resilient buffer. No. 1,423,573; July 25.
- McBride, William S., Caldwell, Ohio. Drilling device. No. 1,424,109; July 25.
- McCafferty, James E., Newark, N. J. Screw driver. No. 1,423,722; July 25.
- McCloskey, Louis J. (See Phillips, R. F., and McCloskey.)
- McClusky, Frank R., Canfield, Ohio. Manifold sheet. No. 1,423,508; July 25.
- McCracken, James D., Cincinnati, assignor to The United States Playing Card Company, Norwood, Ohio. Paper-conveying mechanism. No. 1,424,952; July 25.
- McEwen, Willard M. (See Lamb, Charles C., assignor.)
- McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Combined yarn clearer and tension device. No. 1,423,864; July 25.
- McLeod, Nelson W., New York, N. Y. Pneumatic-tire casing. No. 1,423,771; July 25.
- Maakestad, Micheal J., Chicago, Ill. Belt. No. 1,424,110; July 25.
- Macmanus, Augustus F. W., assignor of one-tenth to J. E. Greer and J. B. Stafford, San Antonio, Tex. Medicinal apparatus. No. 1,424,111; July 25.
- Maday, Joseph F. (See Durbin, Frederick A., assignor.)
- Magrady, Joseph J., Chicago, Ill. Automatic latch for scale beams. No. 1,423,772; July 25.
- Mailhot, Alexander, Thorold, Ontario, Canada. Vehicle wheel. No. 1,423,574; July 25.
- Malby, Seth G., U. S. Army, assignor to Secretary of War, U. S. Army, trustee. Impact fuse. No. 1,424,112; July 25.
- Mallich, Charles, Hamilton, Ohio. Rail chair. No. 1,423,534; July 25.
- Malloy, James T., Lowell, assignor of one-half to J. J. Henderson, Dracont, and one-half to S. R. Haines, Brookline, Mass. Bobbin stripper for automatic looms. No. 1,423,670; July 25.
- Marks, Paul J. and W. O., Rochester, N. Y. Photographic-view finder. No. 1,423,809; July 25.
- Marks, Walter O. (See Marks, Paul J. and W. O.)
- Marion Steam Shovel Co., The. (See King, George W. and C. S., Jacoby, Roush, and Holmes, assignors.)
- Marr, Alexander W., Canton, Ohio. Quick-action double-gear jack. No. 1,423,671; July 25.
- Martin, Haakon A., Christiania, Norway, assignor to The National Cash Register Company, Dayton, Ohio. Credit-account register. No. 1,423,953; July 25.
- Martin, William A., Commercial Cross, Prince Edward Island, Canada. Adjustable wrench. No. 1,423,723; July 25.
- Mascetti & Holley. (See Mascetti, Joseph, assignor.)
- Mascetti, Joseph, assignor to Mascetti & Holley, Torrington, Conn. Derrick attachment for road rollers. No. 1,423,724; July 25.
- Mathews, Fred, Chicago, Ill. Fastening device for automobile hoods. No. 1,423,773; July 25.
- Matsui, Chiyoaburo. (See Sato, R., and Matsui.)
- Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-aligning harp. No. 1,423,575; July 25.
- Maussner, Frederick, Collingswood, N. J., assignor to Henry Wilhelm Company, Pittsburgh, Pa. Mattress. No. 1,423,954; July 25.
- Mellott, Howard S., Morenci, Mich., assignor to The By-Products Recovery Co., Toledo, Ohio. Producing a condensed-milk product. No. 1,423,810; July 25.
- Mesaros, John, Wheeling, W. Va. Tobacco pipe. No. 1,423,620; July 25.
- Miller, Arthur, Columbus, Ohio. Garden tool. No. 1,423,865; July 25.
- Miller, Benjamin F., Vienna, Va. Bag holder. No. 1,424,026; July 25.
- Miller, Earl M. (See Lebzelter, William F., assignor.)
- Miller, Frank E., New York, N. Y. Bone resector. No. 1,423,866; July 25.
- Miller, Frank P., Meadville, Pa. Bracket. No. 1,423,535; July 25.
- Miller, Henry L. (See Rush, Allan C., assignor.)
- Miller, Stanley G., Chatham, Ontario, Canada. Automobile lock. No. 1,423,955; July 25.
- Miller, Thomas S., South Orange, N. J. Towing vessel. No. 1,423,576; July 25.
- Miller, William E., Savannah, Ga. Collapsible rim. No. 1,423,811; July 25.
- Mills, Herbert S. (See Sandell, Henry K., assignor.)
- Milton, John L., assignor, by mesne assignments, to The Teagle Company, Cleveland, Ohio. Magneto ignition system for internal-combustion engines. No. 1,423,672; July 25.
- Mitchell, John E., and D. Parks, St. Louis, Mo. Heel-log-cutting machine. No. 1,423,621; July 25.
- Mitchell, Loris E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Tipless incandescent lamp and similar article. No. 1,423,956; July 25.
- Mitchell, Loris E., and A. J. White, Cleveland, Ohio, assignors to General Electric Company. Stem-making machine. No. 1,423,957; July 25.
- Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Dynamo-electric machine. No. 1,423,958; July 25.
- Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Frequency changer. No. 1,423,959; July 25.
- Mitts & Merrill. (See Mitts, P. S., and Winston, assignors.)
- Mitts, Philip S., and W. J. Winston, assignors to Mitts & Merrill, Saginaw, Mich. Cutting machine. No. 1,423,867; July 25.
- Mohnacs, Andrew I., Passaic, N. J. Vegetable cutter. No. 1,423,950; July 25.
- Mohr, Carl J. and U. J., Dayton, Ohio. Ladder platform and roof jack. No. 1,423,725; July 25.
- Mohr, Carl J. and U. J., Dayton, Ohio. Paint-bucket holder. No. 1,423,726; July 25.
- Mohr, Urban J. (See Mohr, Carl J. and U. J.)
- Monahan, Henry, Meriden, Conn. Line holder. No. 1,423,868; July 25.
- Monmonier, Joseph C., Catonsville, Md. Attachment for tobacco pipes. No. 1,423,869; July 25.
- Moody, John R., Los Angeles, Calif. Hinge. No. 1,423,812; July 25.
- Moore, John J., Batavia, N. Y. Vise. No. 1,423,774; July 25.
- Moran, William F., Frederick, Md. Danger signal. No. 1,423,727; July 25.
- Morck, Arne. (See Nordstrom, O., and Morck.)
- Morgan, Edmund C., Morgan Park, Ill. Mining machine. No. 1,424,113; July 25.
- Morgan, Edmund C., Morgan Park, Ill. Mining machine. No. 1,424,114; July 25.
- Morgenthau, Bernard, New York, N. Y. Lock. No. 1,424,136; July 25.
- Morrison, Max, Trenton, N. J., assignor to The American Steel and Wire Company of New Jersey. Stranding machine. No. 1,423,776; July 25.
- Morton, Frederic C., New Haven, Conn. Tire-making machine. No. 1,423,870; July 25.
- Morton, Ira O., et al. (See Morton, William C., assignor.)
- Morton, William C., assignor of one-third to J. P. Condon and one-third to I. O. Morton, Omaha, Nebr. Universal joint. No. 1,423,577; July 25.
- Moser, Theodor, Berlin-Grunewald, Germany. Appliance for throwing mortar for the plastering of walls and the like. No. 1,423,536; July 25.
- Mott, William P., Chicago, Ill. Spark-testing device for gasoline engines. No. 1,423,622; July 25.
- Mount, Sidney C., Southall, England. Metal cask, drum, or the like. No. 1,423,673; July 25.
- Müller, Gebhard, Munich, Germany. Urinal. No. 1,423,537; July 25.
- Mulvey, Robert J., Chicago, Ill. Garment fastener. No. 1,423,813; July 25.
- Mundt, Emil W., Bernardsville, N. J. Spade. No. 1,423,775; July 25.
- Munson, Sweney, Fowler, Colo. Vehicle wheel. No. 1,423,674; July 25.
- Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic clutch and reversing mechanism. No. 1,424,027; July 25.
- Murphy, William J., Philadelphia, Pa. Cooking utensil. No. 1,423,961; July 25.
- National Biscuit Company. (See Taylor, George A., assignor.)
- National Cash Register Company, The. (See Martin, Haakon A., assignor.)
- Neal, Burton, St. Louis, and G. H. Hebebrand, Kinloch, Mo. Driving mechanism for producing gyratory motion. No. 1,423,871; July 25.
- Neal, Enoch E., Malden, Mass. Coal chute. No. 1,423,872; July 25.
- Neathammer, Joseph A., Alhambra, Ill. Gear housing. No. 1,423,675; July 25.
- Neighbour, Arthur G. L. and H. C. W., Brighton, Victoria, Australia. Two-cycle internal-combustion engine. No. 1,423,578; July 25.
- Neighbour, Harry C. W. (See Neighbour, Arthur G. L. and H. C. W.)
- Nelson, Towal. (See Somerville, George W., assignor.)
- New Jersey Silk Machinery Company. (See Hines, Robert E., assignor.)
- Newcomb, Romie J., Baltimore, Md. Manure loader. No. 1,423,676; July 25.
- Newman, Victor F., and M. W. Loomis, Red Cliff, Colo. Concentrating table and method. No. 1,423,777; July 25.

- Newsom, Joseph N., and H. E. Harder, assignors to Newsom Valve Company, St. Louis, Mo. Valve device for pneumatic tires. No. 1,423,873; July 25.
- Newsom Valve Company. (See Newsom, J. N., and Harder, assignors.)
- Nicholls, Albert E., Wilson Creek, Wash. Internal-combustion engine. No. 1,423,677; July 25.
- Nicoll, Herbert. (See Gibson, R. E., and Nicoll.)
- Nileon, Richard D., Bell, Pa. Rope ladder construction. No. 1,424,115; July 25.
- Nitrogen Corporation, The. (See Arnold, E. E., and St. Clair, assignors.)
- Nitrogen Corporation, The. (See Clancy, John C., assignor.)
- Nitrogen Corporation, The. (See St. Clair, Palmer, jr., assignor.)
- Noble, Donald, Bridgeport, Conn., assignor to The Singer Manufacturing Company. Paper-feeding mechanism. No. 1,424,116; July 25.
- Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Ball-bearing caster. No. 1,424,028; July 25.
- Nolan, Thomas C. (See Potter, I. D., and Nolan.)
- Nordiska Kullager Aktiebolaget. (See Leon, Karl O., assignor.)
- Nordström, Ott, Matfors, and A. Mörcy, Sundsvall, Sweden. Means for continuous predrying of fuel. No. 1,423,728; July 25.
- Norlander, Charles A., assignor of one-half to C. E. Davidson, Greenville, Ill. Carburetor. No. 1,423,579; July 25.
- Northrup, Elmer C., San Francisco, Calif. Box-nailing machine. No. 1,423,778; July 25.
- Northwestern Manufacturing Company. (See Shallcross, Wilmer M., assignor.)
- Oakley, John, Springfield, Mass. Broach. No. 1,423,814; July 25.
- Oefinger, John L., Denver, Colo. Broom holder. No. 1,423,678; July 25.
- Ohio Brass Company, The. (See Matthes, Samuel S., assignor.)
- Okonite Company, The. (See Loomis, Evarts G., assignor.)
- Olin, Fred C., Buffalo, N. Y. Tractor. No. 1,423,962; July 25.
- Oliver, Sewall K., Columbia, S. C. Warp take-up and tensioning mechanism for looms. No. 1,423,729; July 25.
- Oliver, Thomas C. (See Hechenbleikner, I., and Oliver.)
- O'Neil, Thomas J., Pittsburgh, Pa. Antiskid device. No. 1,423,963; July 25.
- Oppenheim, Albert. (See Christie, Lewis D., assignor.)
- Orr, Clifford B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Inner tube for pneumatic tires. No. 1,424,135; July 25.
- Orr, George D., Cincinnati, Ohio. Accessory for automobiles. No. 1,423,730; July 25.
- Orr, William V., Cleveland, Ohio. Suction cleaner. (Reissue.) No. 15,423; July 25.
- Osborn, Alden E., New York, N. Y. Motor vehicle. No. 1,423,731; July 25.
- Oswald, Richard W., Pittsburgh, Pa. Fan wheel. No. 1,423,964; July 25.
- Ozabal, Rudolph, Chicago, Ill. Ash receptacle. No. 1,423,538; July 25.
- P. & M. Company, The. (See Henggi, Lewis O., assignor.) (Reissue.)
- Paige, Jason, Evanston, Ill. Track switch. No. 1,423,965; July 25.
- Palmaffy, Nicholas, West Orange, N. J. Valve. No. 1,423,966; July 25.
- Palmer, Martin J., Chicago, Ill. Pocketbook protector. No. 1,423,539; July 25.
- Pancost, William G., Wilmette, and W. J. Grotenhuis, Chicago, Ill., assignors, by mesne assignments, to Biflex Products Company. Automobile bumper-attaching hanger. No. 1,423,874; July 25.
- Park City Cornice Works, Inc. (See Pitz, A. G., and Saur, assignors.)
- Park, Nelson V., Niles, Mich. Electroplating process. No. 1,423,815; July 25.
- Parks, Dennis. (See Mitchell, J. E., and Parks.)
- Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Manufacture of swivel members. No. 1,424,029; July 25.
- Partee, James, Santa Cruz, Calif. Concrete building structure. No. 1,423,779; July 25.
- Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,423,816; July 25.
- Pavitchich, Steve, Woodriver, Ill. Drain valve. No. 1,423,679; July 25.
- Peck, Harry E., Waverly, N. Y. Shooehorn. No. 1,424,030; July 25.
- Peerless Smoking Jacket Company. (See Leiken, Philip, assignor.)
- Perfect Vacuum Canning Company. (See Bach, Neils P., assignor.)
- Perfecto Gear Differential Co. (See Starr, Charles E., assignor.) (Reissue.)
- Peters, Peter H., Downers Grove, Ill. Folding chair. No. 1,424,031; July 25.
- Peterson, Peter R., Salt Lake City, Utah, assignor to Ideal Rim Tool Co., Jacksonville, Fla. Rim tool. No. 1,423,875; July 25.
- Pfaff, Michael. (See Falk, Andrew, assignor.)
- Pfanstiehl, Carl, Highland Park, assignor to Pfanstiehl Company, Inc., North Chicago, Ill. Poppet valve. No. 1,423,876; July 25.
- Pfanstiehl Company. (See Pfanstiehl, Carl, assignor.)
- Pfeil, Frank L. H., Philadelphia, Pa. Internal-combustion engine. No. 1,423,680; July 25.
- Phillips Mine & Mill Supply Co. (See Phillips, R. F., and McCloskey, assignors.)
- Phillips, Robert F., and L. J. McCloskey, assignors to Phillips Mine & Mill Supply Co., Pittsburgh, Pa. Washer for mine-car wheels. No. 1,423,877; July 25.
- Pickering, Theodore H., assignor to Josiah Anstice & Company, Inc., Rochester, N. Y. Vegetable peeler. No. 1,424,032; July 25.
- Piernikowski, Wladyslaw, and S. Grudzinski, Philadelphia, Pa. Spring wheel. No. 1,423,733; July 25.
- Pitho Plastic Board Company. (See Lockhart, James A., assignor.)
- Pittsburgh Oil Refining Corporation. (See Boileau, Walter K., assignor.)
- Pitz, Adolph G., and O. X. Sauer, assignors to Park City Cornice Works, Inc., Bridgeport, Conn. Skylight lift. No. 1,423,817; July 25.
- Pixley, Leland F., Afton, N. Y. Ice conveyer. No. 1,423,732; July 25.
- Pledger, Thomas C. (See Broadway, W., and Pledger.)
- Poppenhusen, Herman A., Hammond, assignor to Green Engineering Company, East Chicago, Ind. Liquid-cooled conduit for furnaces. No. 1,423,540; July 25.
- Popper, Isaac C., New York, N. Y. Automatic butter-cutting machine. No. 1,424,117; July 25.
- Porter Brothers Textile Company. (See Hill, W. E., and Firth, assignors.)
- Post, George B., assignor to Huff, Daland & Company, Inc., Ogdensburg, N. Y. Airplane. No. 1,423,681; July 25.
- Post, Nathaniel B., Chicago, Ill. Coffee roaster. No. 1,423,818; July 25.
- Potter, Laurens D., and T. C. Nolan, Emmetsburg, Iowa. Loader device. No. 1,423,878; July 25.
- Potter, Ralph S. (See Weisberg, L., and Potter.)
- Potter, Stephen J., assignor to Sheet Lathing Corporation, Syracuse, N. Y. Plaster support for walls. No. 1,423,879; July 25.
- Potts, Samuel A. (See Gains, Chester R., assignor.)
- Powers, Fred W., assignor to The Powers Regulator Company, Chicago, Ill. Water mixer. No. 1,423,880; July 25.
- Powers Regulator Company. (See Powers, Fred W., assignor.)
- Pullman Davenport and Upholstered Furniture Company. (See Kramer, J., Kuehne, and Kopplin, assignors.)
- Putnam, Alexander S., Los Angeles, Calif. Bed-rail fastener. No. 1,423,623; July 25.
- Putt, Harlie O., Elkhart, Ind. Oscillator for magnetos. No. 1,423,734; July 25.
- Putt, Harlie O., Elkhart, Ind. Oscillator for magnetos. No. 1,423,735; July 25.
- Radford, George S., assignor, by mesne assignments, to Central Union Trust Company of New York, New York, N. Y. Color-matching room. No. 1,423,882; July 25.
- Ramer, Jacob B., Chambersburg, Pa. Equalizing and steering gearing for motor vehicles. No. 1,424,118; July 25.
- Reinhold, Philip A., Akron, Ohio. Tractor and plowing attachment therefor. No. 1,423,736; July 25.
- Remington Accounting Machine Corporation. (See Seib, George A., assignor.)
- Remington Accounting Machine Corporation. (See Woodward, Oscar, assignor.)
- Remy Electric Company, The. (See Replogle, James B., assignor.)
- Rench, W. S. (See Ericson, Louis E., assignor.)
- Renwick, Frank F. (See Agnew, A. J., and Renwick.)
- Replogle, James B., Detroit, Mich., assignor to The Remy Electric Company. Engine governor. No. 1,424,140; July 25.
- Rice, Roy E., Bucyrus, Ohio, assignor to Roberts and Schaefer Company, Chicago, Ill. Limit switch for electric-driven hoists. No. 1,423,624; July 25.
- Richards, Earl M., Wilkensburg, Pa. Fluid-pressure brake. No. 1,424,033; July 25.
- Richmond, George E., Enid, Okla. Thrashing machine. No. 1,424,119; July 25.
- Ricks, D. A., et al. (See Johnson, Adolph A., assignor.)
- Rigert, Herman, Brooklyn, N. Y. Clamp. No. 1,424,034; July 25.
- Robbins, George A. H., and S. F. E. Einsiedel, Brisbane, Queensland, Australia. Resilient core for motor tires. No. 1,423,580; July 25.
- Roberts and Schaefer Company. (See Rice, Roy E., assignor.)
- Robson, John, Anita, Iowa. Four-horse equalizer. No. 1,423,682; July 25.
- Rockoff, Bernard. (See Rockoff, Elias, assignor.)
- Rockoff, Elias, assignor of one-half to B. Rockoff, Chicago, Ill. Stem for electric-lighting fixtures. No. 1,423,683; July 25.
- Rockwell, Edward D., Bristol, Conn. Valve-stem cap. No. 1,423,541; July 25.
- Rockwell, Hugh M., Bristol, Conn., assignor, by mesne assignments, to Standard Steel and Bearings Incorporated, Wilmington, Del. Bore gauge. No. 1,423,542; July 25.
- Rogers, Frank J., Independence, Kans. Well-cleaning device. No. 1,423,625; July 25.
- Rogers, Harry R., assignor to Chicago Car Seal Company, Chicago, Ill. Seal. No. 1,423,881; July 25.

- Rogers, Herbert D., Lewistown, Ill. Bee escape. No. 1,423,883; July 25.
- Roof, Robert M., Anderson, Ind. Multiple-valve-grinding machine. No. 1,424,035; July 25.
- Roos, Delmar C., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Clutch. No. 1,424,036; July 25.
- Rose, Abel, Cleveland, Ohio. Trousers support. No. 1,423,684; July 25.
- Rossman, William F., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Making of zinc retorts and other refractory shapes. No. 1,424,120; July 25.
- Roush, Herbert E. (See King, George W. and C. S., Jacoby, Roush, and Holmes.)
- Rudiger, Abraham M. (See Brautigam, Anthony F., assignor.)
- Rudolph, Emmett H., Pershing, Okla. Tank-car-loading device. No. 1,424,037; July 25.
- Rush, Allan C., Los Angeles, assignor of one-half to H. L. Miller Glendale, Calif. Ocean pier. No. 1,423,884; July 25.
- Saal, Henry G. (See Stafford, Frederick S., assignor.)
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Transmitting pictures and the like. No. 1,423,737; July 25.
- Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Sheet-perforating machine. No. 1,423,738; July 25.
- Sato, Ryuji, and C. Matsui, New York, N. Y. Swimming race. No. 1,424,038; July 25.
- Saur, Otto X. (See Pitz, A. G., and Saur.)
- Sautter, Michael, Spokane, Wash. Husking mitten. No. 1,423,543; July 25.
- Schaaf, John B., assignor of one-half to C. Arbogast, Cincinnati, Ohio. Curtain-window light. No. 1,423,685; July 25.
- Schaedler, Wilfred J., Brooklyn, N. Y. Tank gauge. No. 1,423,544; July 25.
- Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight indicator for scales. No. 1,423,885; July 25.
- Schat, Ane P., The Hague, Netherlands. Automatically-braked davit. No. 1,423,739; July 25.
- Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Comb-cutting machine. No. 1,423,967; July 25.
- Schelhammer, Herman, Whitestone Landing, assignor to American Hard Rubber Co., New York, N. Y. Comb-cutting machine. No. 1,423,968; July 25.
- Schelhammer, Herman. (See Wing, C. E., and Schelhammer.)
- Schelter, John C., Rochester, N. Y., assignor to Fitz-Empire Double Pivot Last Company, Auburn, Me. Last. No. 1,423,740; July 25.
- Schulte, Louis, Chicago, Ill. Electrofinishing. No. 1,423,686; July 25.
- Schultz, John M., assignor to J. S. Chennour, Chicago, Ill. Typewriter attachment. No. 1,423,687; July 25.
- Schürmann, Carl, Düsseldorf, Germany. Multiple-roll supercalender. No. 1,423,969; July 25.
- Schuske, Henry F. G., St. Joseph, Mo. Seam-setting tool. No. 1,423,581; July 25.
- Scott, Fletcher J., Hurdland, Mo. Sawing machine. No. 1,424,039; July 25.
- Scott, John E., Philadelphia, Pa. Saltcellar. No. 1,424,040; July 25.
- Scott, Michael J. (See Des Roches, Hilton H., assignor.)
- Schulze, John F. W. (See Bailey, G. C., Fischer, and Schulze.)
- Seamless Rubber Company. (See De Gowin, Isaac, assignor.)
- Searle, Frederick B., Denver, Colo. Steam drifter mechanism for locomotives. No. 1,423,688; July 25.
- Secretary of War, United States of America. (See Malby, Seth G., assignor.)
- Sedelbauer, William J., Toledo, Ohio. Gasoline purifier. No. 1,423,970; July 25.
- Seib, George A., Iliou, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,423,741; July 25.
- Selin, Harry A., Reading, Pa. Signal device for railway train-order semaphores. No. 1,423,689; July 25.
- Semenza, Marco, Milan, Italy. Means for the suspension of electric contact wires. No. 1,423,582; July 25.
- Senczak, Anna, et al. (See Andrusyszyn, Frank, assignor.)
- Seymour, Frederick S., Manchester, Iowa. Fuel feed for heating devices. No. 1,424,041; July 25.
- Shallcross, Wilmer M., assignor to Northwestern Manufacturing Company, Milwaukee, Wis. Automatic regulator for coke ovens. No. 1,424,042; July 25.
- Shapiro, Harry. (See Shapiro, Jacob and H.)
- Shapiro, Jacob and H., New York, N. Y. Toy. No. 1,423,819; July 25.
- Shaw, Helen A., executrix. (See Shaw, Walter.)
- Shaw, Walter, deceased, Dedham, Mass., by H. A. Shaw, executrix, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,423,626; July 25.
- Sheet Lathing Corporation. (See Potter, Stephen J., assignor.)
- Shepherd, Sylvester B. (See Daniel, David C., assignor.)
- Sherman, Alvin G., assignor to Detroit Vapor Stove Company, Detroit, Mich. Burner regulator. No. 1,423,627; July 25.
- Sherman, John Q., Dayton, Ohio. Rotary punch. No. 1,423,690; July 25.
- Shorter, Leo J. (See Cole, J. A., and Shorter.)
- Sibley, Amos H., Shipbottom, and G. L. Van Allen, Newark, N. J., assignors to General Dental Mfg. Co. Tube tooth and crown. No. 1,423,628; July 25.
- Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
- Siegfried, Joseph, Lafayette, assignor of one-fourth to J. Held, West Lafayette, and one-fourth to C. Held, La Fayette, Ind. Window. No. 1,423,629; July 25.
- Silverman, Harry A., New York, N. Y. Heater unit. No. 1,423,742; July 25.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Blank-handling mechanism. No. 1,423,630; July 25.
- Simmons, Ralph C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,423,743; July 25.
- Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
- Singer Manufacturing Company, The. (See Noble, Donald, assignor.)
- Skaife, Walter, London, England. Dog clutch. No. 1,423,631; July 25.
- Skall, Max A., New York, N. Y. Protecting device for show windows. No. 1,424,043; July 25.
- Slinger, Cornelius H., Hawthorne, N. J. Friction band for let off mechanism. No. 1,423,780; July 25.
- Smith & Davis Mfg. Co. (See Izen, Alexander, assignor.)
- Smith, Charles S. (See Hastings, H. J., and Smith.)
- Smith, Curtis E., St. Joseph, Mo. Holsting apparatus. No. 1,423,971; July 25.
- Smith, Edwin C., et al., executors. (See Wardwell, Simon W.)
- Smith, Henry L., Paterson, N. J. Steering-wheel lock for vehicles. No. 1,423,632; July 25.
- Smith, Henry L., Paterson, N. J. Swimming harness. No. 1,423,633; July 25.
- Smith, John J., Winnipeg, Manitoba, Canada. Combined tube expander and beading tool. No. 1,423,545; July 25.
- Società Anonima Brevetti Beccari. (See Beccari, Giuseppe, assignor.) (Reissue.)
- Sokolov, Jacob, assignor to Defiance Combination Auto Lock Corporation, Detroit, Mich. Lock for automobiles. No. 1,423,691; July 25.
- Solack, Joseph, Scranton, Pa. Boat. No. 1,424,044; July 25.
- Solheid, Leo, Düsseldorf, Germany. Flushing apparatus. No. 1,423,634; July 25.
- Somerville, George W., Wilmington, assignor of one-half to T. Nelson, Lebec, Calif. Tire protector. No. 1,423,692; July 25.
- Sorensen, Andrew, Oakland, Calif. Washing machine. No. 1,423,972; July 25.
- South Side Manufacturing Company, The. (See Hedberg, John A., assignor.)
- Spain, William, Riverside, assignor of one-half to Corn Products Refining Company, Argo, Ill. Machine for applying ears to pails. No. 1,423,693; July 25.
- Specialty Automatic Machine Company. (See La Bombard, L. E., and Sidebotham, assignors.)
- Speer, Jeannette L., Trappe, Md. Reversible glove. No. 1,423,546; July 25.
- Spellman, Mabel R. (See Braxton, Elbert M., assignor.)
- Sprague, George E., Cambria, Ill. Ratchet crank. No. 1,424,045; July 25.
- Stafford, Frederick S., assignor to H. G. Seal, Chicago, Ill. Wheel. No. 1,423,694; July 25.
- Stafford, J. B., et al. (See Macmanus, Augustus F. W., assignor.)
- Stagers, William F., Mannington, W. Va. Antilock device for steering gears. No. 1,423,820; July 25.
- Standard Coupler Company. (See Gallagher, Richard D., Jr., assignor.)
- Standard Oil Company. (See Jennings, James M., assignor.)
- Standard Parts Company. (See Baker, Walter C., assignor.)
- Standard Steel and Bearings Incorporated. (See Rockwell, Hugh M., assignor.)
- Stanley Works, The. (See Parsons, Stuart W., assignor.)
- Staples, Willard G., assignor of one-half to Timothy Harrington, Newburyport, Mass. Key holder. No. 1,424,121; July 25.
- Starr, Charles E., Oakland, Calif., assignor to Perfecto Gear Differential Co., Seattle, Wash. Driving mechanism for motor vehicles. (Reissue.) No. 15,424; July 25.
- St. Clair, Palmer, Jr. (See Arnold, E. E., and St. Clair.)
- St. Clair, Palmer, Jr., Niagara Falls, N. Y., assignor to The Nitrogen Corporation, Providence, R. I. Heat exchanger or condenser. No. 1,423,695; July 25.
- Steel Wheel Corporation. (See Bellamore, D. H., and Boak, assignors.)
- Stephens-Adams Mfg. Co. (See Kendall, Myron A., assignor.)
- Steps, Robert A., assignor to Sugar Machinery Company, Los Angeles, Calif. Method of and means for washing centrifugals. No. 1,423,583; July 25.
- Sterling, Don L., Dallas, Tex. Bank check and stub. No. 1,423,744; July 25.
- Stevens and Company. (See Stevens, Frederick A., assignor.) (Reissue.)
- Stevens, Arthur L., Chicago, Ill. Apparatus for and process of purifying gas. No. 1,423,696; July 25.

- Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. (Reissue.) No. 1,423,751; July 25.
- Stewart, Ernest, et al. (See Ziegler, George J., assignor.)
- Stewart, Henri M., New York, N. Y. Remittance reminder. No. 1,423,886; July 25.
- Stewart, Richard P., Briarcliff, N. J. Truck loading and unloading mechanism. No. 1,423,887; July 25.
- Stewart, William J. (See Woolcock, John, assignor.)
- Stiemke, Walter H. (See Jett, George C., assignor.)
- Stolle, Frank F. (See Stolle, John W., assignor.)
- Stolle, John W., Ashland, Me., assignor of one-third to F. F. Stolle, Redding, Conn. Unbreakable cant hook. No. 1,423,781; July 25.
- Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Lock. No. 1,424,046; July 25.
- Stone, Jay C., Spokane, Wash. Mechanical movement. No. 1,423,973; July 25.
- Stowell, Lawrence H., Wheatland, N. Dak. Grain holder for binders. No. 1,424,122; July 25.
- Strauss, Mortimer L., Cleveland, Ohio. Coating or sealing composition. No. 1,423,821; July 25.
- Strohbach, Henry J., New York, N. Y. Coffee urn. No. 1,423,547; July 25.
- Stuart, Kenneth E., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Apparatus for electrolyzing solutions. No. 1,423,584; July 25.
- Sugar Machinery Company. (See Steps, Robert A., assignor.)
- Syedahl, August O., Marmarth, N. Dak. Tail light for automobiles. No. 1,424,047; July 25.
- Swan, Willis A., Port Huron, Mich. Air pump. No. 1,424,123; July 25.
- Szalay, Joseph, Vicksburg, Miss. Window latch. No. 1,424,048; July 25.
- Szczepanik, Jan, Tarnow, Poland. Cinematograph. No. 1,423,697; July 25.
- Szizgethy, Joseph, Hirmerville, Ky. Shoe-buttoning device. No. 1,423,782; July 25.
- Tatum, Samuel C., Company, The. (See Carpenter, Charles C., assignor.)
- Taylor, Alfred. (See Taylor, Harold D., assignor.)
- Taylor, Augustus. (See Fuller, Leonard F., assignor.)
- Taylor, Edward G., Madison, Wis. Dishpan. No. 1,423,548; July 25.
- Taylor, George A., Wechawken, N. J., assignor to National Biscuit Company, New York, N. Y. Display rack. No. 1,423,585; July 25.
- Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Tension device and yarn cleaner. No. 1,424,124; July 25.
- Taylor, Harold D., assignor of one-half to A. Taylor, York, England. Range-finding and the like instrument. No. 1,424,125; July 25.
- Teagle Company, The. (See Milton, John L., assignor.)
- Tench, Samuel V., Wilkes-Barre, Pa. Flight for conveyor chains. No. 1,424,126; July 25.
- Theleen, Oscar H., assignor to Frost Manufacturing Company, Kenosha, Wis. Flushing mechanism. No. 1,423,888; July 25.
- Thole, Edward J., Evansville, Ind. Box. No. 1,424,127; July 25.
- Thomas, Benjamin D., assignor of one-tenth to Thomas-Morse Aircraft Corporation, Ithaca, N. Y. Dual control for airplanes. No. 1,424,049; July 25.
- Thomas, Hockley M., and M. Fogel, New York, N. Y.; said Fogel assignor to said Thomas. Support and cutter. No. 1,424,050; July 25.
- Thomas-Morse Aircraft Corporation. (See Thomas, Benjamin D., assignor.)
- Thompson, Willis A. S. (See Gunn, R. W., and Thompson.)
- Throne, Robert P., Syracuse, N. Y. Machine for making chaplets. No. 1,423,586; July 25.
- Thurston, Frank S., Chicago, Ill. Feeding device. No. 1,423,698; July 25.
- Thwaites, William H., Grand Rapids, Mich. X-ray cabinet and machine. No. 1,423,635; July 25.
- Tilton, Frank A., et al. (See Cole, Albert L., assignor.)
- Toledo Scale Company. (See Hem, Halvor O., assignor.)
- Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Power cable-reeling mechanism for self-propelled machines. No. 1,423,889; July 25.
- Tuttle, Harry B., Jeannette, Pa. Tire carrier. No. 1,423,699; July 25.
- Underwood Typewriter Company. (See Wherry, John A., assignor.) (Reissue.)
- Union Switch & Signal Company, The. (See Lewis, Lloyd V., assignor.)
- United Lace & Braid Manufacturing Company of Auburn. (See Armitage, George H., assignor.)
- United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
- United Shoe Machinery Corporation. (See Shaw, Walter, assignor.)
- United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)
- United States Caster Co. (See Van Meter, George F., assignor.)
- United States Playing Card Company, The. (See McCracken, James D., assignor.)
- Universal Winding Company. (See Adell, E., and Brink, assignors.)
- Universal Winding Company. (See Taylor, George N., assignor.)
- Van Allen, George L. (See Sibley, A. H., and Van Allen.)
- Van Meter, George F., assignor to United States Caster Co., Incorporated, Indianapolis, Ind. Locking means for caster pintles. No. 1,423,700; July 25.
- Vaughn, Patrick H., Morris, Minn. Feed roller. No. 1,423,783; July 25.
- Vickers Limited. (See Dawson, A. T., and Horne, assignors.)
- Vinson, Clay R., Tulsa, Okla. Napkin-dispensing device. No. 1,423,701; July 25.
- Voss, Henry E., administrator. (See Burris, James N.) (Reissue.)
- Vula, Trajan, Garches, assignor to C. Brediceanu, Paris, France. Flying machine. No. 1,423,636; July 25.
- Vuille, George, Shelby, Ohio. Hinge check. No. 1,423,784; July 25.
- Wallwork, Samuel, Summerville, Pa. Railway tie and securing device. No. 1,423,702; July 25.
- Wallwork, Samuel, Summerville, Pa. Switch construction. No. 1,423,703; July 25.
- Walsh, John J. P., New York, N. Y. Tire. No. 1,423,549; July 25.
- Wand, Leo J., Elizabeth, Ill. Chain lock. No. 1,423,974; July 25.
- Ward Leonard Electric Company. (See Bullinger, Frederick H., assignor.)
- Wardwell, Simon W., deceased, Providence, R. I.; C. V. J. Christensen, E. C. Smith, A. A. Armington, and W. W. Bardsley, executors. Yarn retriever for braiding or similar machines. No. 1,423,587; July 25.
- Warner, Arthur W., Media, Pa., assignor to The American Gas Company of New Jersey, Camden, N. J. Water seal for gas retorts. No. 1,423,975; July 25.
- Warner, Robert K., West Haven, Conn. Sampling apparatus. No. 1,423,890; July 25.
- Wasyl Klymk et al. (See Andrusyszyn, Frank, assignor.)
- Watrous, Denton J. (See Hibbard, R. B., Watrous, and Bassette.)
- Wayne, Herbert N., Washington, D. C. Universal joint. No. 1,424,051; July 25.
- Weber, George A., Stamford, Conn. Nonpuncturable tire. No. 1,423,976; July 25.
- Weber, George A., Stamford, Conn. Nonpuncturable tire. No. 1,423,977; July 25.
- Weibel, Emil A., Fairbank, Iowa. Handle. No. 1,424,052; July 25.
- Weintraub, Ezechiel, New York, N. Y., assignor to General Electric Company. Preparing catalyzing material. No. 1,423,978; July 25.
- Weisberg, Louis, and R. S. Potter, Grantwood, N. J., assignors to The Barrett Company. Polyglycerol resin. No. 1,424,137; July 25.
- Western Electric Company. (See Cardwell, Allen D., assignor.)
- Western Electric Company. (See Freile, Bruce, assignor.)
- Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
- Wheeler, James W., Jr., Chattanooga, Tenn. Direction indicator. No. 1,423,588; July 25.
- Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriter. (Reissue.) No. 1,423,589; July 25.
- Whitaker, William H., assignor to American Atomized Fuel Company, Shelbyville, Ill. Pulverized-fuel carburetor and feeder. No. 1,424,053; July 25.
- White, Arthur J. (See Mitchell, E. L., and White.)
- White, Edward T. (See Canell, Charles E., assignor.)
- White, Ida E., administratrix. (See White, Joseph B.)
- White, James S., assignor to Allied Golf Company, Chicago, Ill. Golf bag. No. 1,423,891; July 25.
- White, Joseph B., deceased, by I. E. White, administratrix. Marion, Iowa. Seed and ground tester. No. 1,423,979; July 25.
- Whiting Corporation. (See Townsend, John S., assignor.)
- Wiehl, Alfred, Brooklyn, N. Y. Phonograph-record cabinet. No. 1,424,054; July 25.
- Wilde, Adolph, Bellflower, Ill. Tractor coupling. No. 1,423,785; July 25.
- Wilder, Eugene, Boulder, Colo. Aeroplane. No. 1,424,055; July 25.
- Will & Baumer Candle Company, The. (See Grossmann, Robert, assignor.)
- Williams, Arthur G., Grantwood, N. J., assignor to The Barrett Company. Production of dicarboxylic acid. No. 1,423,980; July 25.
- Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam release and support. No. 1,423,892; July 25.
- Williams, William E., Chicago, Ill. Highway road. No. 1,423,893; July 25.
- Williams, William E., Wilmette, Ill. Bumper for automobiles. No. 1,423,894; July 25.
- Williamson, G. H., & Sons, Limited. (See Drury, Frank, assignor.)
- Willson, Andrew E. (See Willson, Mabel W. and A. E.)
- Willson, Mabel W. and A. E., Grand Rapids, Mich. Powder puff. No. 1,423,745; July 25.
- Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)
- Winblad, Niklas, Stepney, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Ignition apparatus for internal-combustion engines. No. 1,424,056; July 25.

- Wing, Claude E., College Point, and H. Schelhammer, Whitestone Landing, assignors to American Hard Rubber Co., New York, N. Y. Machine for making combs. No. 1,423,981; July 25.
- Winston, William J. (See Mitts, P. S. and Winston.)
- Winters, Lee L., Ann Arbor, Mich. Motor-meter lock. No. 1,423,822; July 25.
- Witzenmann, Emil, Pforzheim, Germany. Flexible metal hose. No. 1,424,057; July 25.
- Wolfe, Arthur P., Lockport, N. Y., assignor to Harrison Radiator Corporation. Supporting and actuating means for automobile radiator shutters. No. 1,423,982; July 25.
- Wolff, Albert, Berlin, Germany. Sterilizing air. No. 1,423,704; July 25.
- Wood, Frederick W., Ashton-under-Lyne, assignor to Woods Die Press Improvements Company, Limited, London, England. Die press for printing and embossing. No. 1,423,589; July 25.
- Wood, John T., East St. Louis, Ill. Washboiler attachment. No. 1,423,823; July 25.
- Wood, Lyndon D. (See Falk, Hilbert L., assignor.)
- Woodard, William E., Forest Hills, N. Y. Trailer truck for locomotives. No. 1,423,895; July 25.
- Woods Die Press Improvements Company, Limited. (See Wood, Frederick W., assignor.)
- Woodward, Oscar, Babylon, assignor to Remington Accounting Machine Corporation, New York, N. Y. Calculating machine. No. 1,423,637; July 25.
- Woolcock, John, assignor to W. J. Stewart, London, England. Molding of concrete products such as blocks, panels, structures, and the like. No. 1,423,983; July 25.
- Wyckoff, William L., Brooklyn, N. Y. Calculating rule. No. 1,423,896; July 25.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Connector switch. No. 1,423,897; July 25.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,423,898; July 25.
- Yanochowski, George A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Automatic telephone system. No. 1,423,899; July 25.
- Yehling, William W., Butte, Mont. Spike. No. 1,424,058; July 25.
- Youngs, George B., New York, N. Y. Brake. No. 1,424,059; July 25.
- Youngstown Sheet & Tube Company, The. (See Jupp, A. E., and Crooks, assignors.)
- Zeier, George W., Ethan, S. Dak. Husker. No. 1,424,060; July 25.
- Ziegler, George J., assignor of one-third to S. Gibbons, one-third to E. Stewart, and one-third to F. C. Beutel, Los Angeles, Calif. Tractor. No. 1,424,128; July 25.
- Zilen, Victor W., assignor to Lucey Manufacturing Corporation, Chattanooga, Tenn. Crown-block cable guard. No. 1,423,550; July 25.
- Zimmerman, Walter, Kansas City, Kans. Garment fastener. No. 1,423,590; July 25.
- Zoelly, Heinrich, and A. Gagg, Zurich, Switzerland. Servo-motor-controlling mechanism. No. 1,423,786; July 25.

ALPHABETICAL LIST OF PATENTEEES OF DESIGNS.

- Barci, George, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,266; July 25.
- Chapman, William M., Hartford, Ind. Ash-tray. No. 61,267; July 25.
- Enoch, J. Olive, Los Angeles, Calif. Stocking baby doll. No. 61,268; July 25.
- Farnsworth, Kenneth C. (See Roberts, C. V., and Farnsworth.)
- Forman Bassett Company, The. (See Meyer, Frank, assignor.)
- Gaudioz, Edmond, Watford, England, assignor to Witcombe, McGeachin & Co., New York, N. Y. Textile fabric, wall paper, wrapping paper, or article of similar nature. No. 61,269; July 25.
- Javal, Fernand, Paris, France. Paper or similar article. No. 61,270; July 25.
- Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,271; July 25.
- Lindner, Harold H., assignor to Montague & Co. Inc., New York, N. Y. Valance. No. 61,272; July 25.
- Lockwood, Catharine B., Washington, D. C. Toy doll. No. 61,273; July 25.
- Mayer, Joshua W., New York, N. Y. Ring or similar article. No. 61,274; July 25.
- Meyer, Frank, Lakewood, Ohio, assignor to The Forman Bassett Company. Safety paper. No. 61,275; July 25.
- Montague & Co. Inc. (See Lindner, Harold H., assignor.)
- Pelt, Joseph, Newark, N. J. Knitted cape. No. 61,276; July 25.
- Roberts and Mander Stove Company. (See Roberts, C. V., and Farnsworth, assignors.)
- Roberts, Clarence V., and Kenneth C. Farnsworth, assignors to Roberts and Mander Stove Company, Philadelphia, Pa. Gas heater. No. 61,277; July 25.
- Rowland, Gladys, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 61,278; July 25.
- Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Husk for lighting fixtures. No. 61,279; July 25.
- Shiman Bros. & Co. Inc. (See Shiman, David, assignor.)
- Shiman, David, assignor to Shiman Bros. & Co. Inc., New York, N. Y. Finger ring. No. 61,280; July 25.
- Strasser, William, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 61,281-4; July 25.
- Susquehanna Silk Mills. (See Barci, George, assignor.)
- Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
- Susquehanna Silk Mills. (See Rowland, Gladys, assignor.)
- Susquehanna Silk Mills. (See Strasser, William, assignor.)
- Susquehanna Silk Mills. (See Tardy, Viola, assignor.)
- Tardy, Viola, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 61,285-6; July 25.
- Vester, Alfred, Sons, Inc. (See Schulze, John W., assignor.)
- Witcombe, McGeachin & Co. (See Gaudioz, Edmond, assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

- Abbott Shoe Co., North Reading, Mass. Boots, shoes, and slippers. No. 156,974; July 25.
- Adam Int-Hout, Chicago, Ill. Mixture for making pies, puddings, custards, and cake filling. No. 156,975; July 25.
- Adler, David, & Sons Co., Milwaukee, Wis. Men's and young men's coats, waistcoats, trousers, and overcoats. No. 156,976; July 25.
- Aktiengesellschaft Cilander, Herisau, Switzerland. Cotton, linen, and half-silk piece goods. Nos. 156,977-80; July 25.
- Alligator Oil Clothing Company, St. Louis, Mo. Waterproof clothing. No. 156,981; July 25.
- Alperin, Benjamin, Red Bank, N. J. Mayonnaise. No. 156,982; July 25.
- Ambassador Cap Co., New York, N. Y. Men's and boys' caps and hats. No. 156,983; July 25.
- American Collar Co., Inc., Troy, N. Y. Collars, cuffs, shirts. No. 157,251; July 25.
- American Crayon Company, The, Sandusky, Ohio. Dustless crayons. No. 156,984; July 25.
- American Naval Uniform Co., Hyde Park, Mass. Naval and army uniforms and hats, men's suits, hats, etc. No. 156,985; July 25.
- American Safety Razor Corporation, New York and Brooklyn, N. Y. Razors, safety razors, safety-razor blades. No. 156,986; July 25.
- American Thread Company, The, Jersey City, N. J. Spool and sewing cotton, thread, cotton yarn. No. 156,987; July 25.
- Am-O-Meter Company, Inc., The, Smithville, Tex. Electric-current detector. No. 156,988; July 25.
- Anchor Grip-Heel Company, The. (See Runyan, Arthur L., assignor.)
- Armstrong, D., & Co. Inc., Rochester, N. Y. Shoes for women. No. 156,989; July 25.
- Armstrong Manufacturing Co., The, Bridgeport, Conn. Pipe vices and stocks and dies for pipe threading. No. 156,990; July 25.
- Atlas Tack Corporation, Fairhaven, Mass. Tacks, nails, rivets. No. 157,252; July 25.
- Auerbach, Louis, New York, N. Y. Ties and scarfs. Nos. 156,991-2; July 25.
- Austin, Nichols & Co., Inc., Richmond, Va. Automobile tires and tubes of rubber and a combination of fabric and rubber. No. 156,993; July 25.
- Barnett Canvas Goods & Bag Co. Inc., Philadelphia, Pa. Canvas tents and covers for covering merchandise, trucks, etc. No. 156,995; July 25.
- Barr Company, The, Chillicothe, Ohio. Vending machine. No. 156,996; July 25.
- Barshal Company, Cleveland, Ohio. Vault lockers for the storage of valuables, safes, etc. No. 156,997; July 25.
- Bass, G. H., & Company, Wilton, Me. Moccasins. No. 156,998; July 25.
- Bay Bee Oil Co., New York, N. Y. Olive oil. No. 156,999; July 25.
- Bay State Stamping Company, Worcester, Mass. Curtain fixtures and brackets. No. 157,253; July 25.
- Beacon Manufacturing Company, Providence, R. I. Blankets of double thickness. No. 157,000; July 25.
- Berkander, Geo. F., Providence, R. I. Dolls. No. 157,001; July 25.
- Berman, Reuben, New York, N. Y. Hosiery. No. 157,002; July 25.
- Bethlehem Steel Company, Bethlehem, Pa. Sheet steel. No. 157,003; July 25.
- Birkenfeld, Strauss & Co., New York, N. Y. Women's and children's underwear, children's dresses, etc. No. 157,004; July 25.
- Blue Star Knitting Co., Milwaukee, Wis. Knit underwear of wool, cotton, silk, and mixtures thereof for women and children. No. 157,005; July 25.
- Bonar-Phelps Company, New York, N. Y. Hats for men. Nos. 157,006-8; July 25.
- Bonar-Phelps Company, New York, N. Y. Hats for men. No. 157,009; July 25.
- Bonar-Phelps Company, New York, N. Y. Hats for men. No. 157,255; July 25.
- Borden, George L., Trenton, N. J. Cut glass. No. 157,010; July 25.
- Bradley, James J., New York, N. Y. Toilet soap. No. 157,256; July 25.
- Brainerd & Armstrong Company, The, New London, Conn. Artificial-silk threads. No. 157,011; July 25.
- Brown Shoe Company, Inc., St. Louis, Mo. Shoes. No. 157,012; July 25.
- Brown Shoe Company, Inc., St. Louis, Mo. Men's leather shoes. No. 157,013; July 25.
- Brown Shoe Company, St. Louis, Mo. Shoes. No. 157,014; July 25.
- Brownstein-Louis Co., Los Angeles, Calif. Garment to be worn both as a sleeping robe and lounging robe. No. 157,015; July 25.
- Buckeye Brass and Manufacturing Company, The, Cleveland, Ohio. Bearings and bushings. No. 157,016; July 25.
- Buhr & Smith, Cincinnati, Ohio. Chocolate-covered candies. No. 157,017; July 25.
- Burson Knitting Company, Rockford, Ill. Hosiery. No. 157,018; July 25.
- Burt Olney Canning Company, The, Oneida, N. Y. Condensed and evaporated milk. No. 157,019; July 25.
- Butler, Fergus A., New York, N. Y. Shoes of leather, rubber, fabric, and combinations thereof. No. 157,020; July 25.
- Carey, J. P., & Co., Inc., New York, N. Y. Certain articles of clothing. No. 157,021; July 25.
- Caro & Company, Inc., New York, N. Y. Ladies' kimonos, house dresses, and aprons, men's, women's, and children's bath robes. No. 157,022; July 25.
- Carpenter Steel Company, The, Reading, Pa. Tool steels in bars, billets, and shapes. No. 157,023; July 25.
- Challenger, Edgar O., New York, N. Y. Kansas-hard-wheat clear flour. No. 157,024; July 25.
- Chalmers Knitting Company, Amsterdam, N. Y. Union suit. No. 157,025; July 25.
- Chastern, Inc., New York, N. Y. Pyrophoric igniters. No. 157,026; July 25.
- Clarke, A. Keency, New York, N. Y. Hosiery. No. 157,270; July 25.
- Cleveland Twist Drill Company, The, Cleveland, Ohio. Metal-working small tools. No. 157,027; July 25.
- Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, and detached waterproof wagon covers. No. 157,028; July 25.
- Coleman, Aloysius J., New York, N. Y. Ordinary lead pencils and magazine lead pencils. No. 157,029; July 25.
- Commonwealth Shoe and Leather Company, Boston, Mass. Leather boots and shoes. No. 157,030; July 25.
- Coombs & Levison, New York, N. Y. Coats, vests, trousers, and overcoats. No. 157,031; July 25.
- Conard, Albert J., Kansas City, Mo. Brake linings. No. 157,032; July 25.
- Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 157,033; July 25.
- Cotton States Hosiery Mills, The, Chattanooga, Tenn. Underwear of all kinds. No. 157,034; July 25.
- Craddock-Terry Company, Lynchburg, Va. Men's and boys' shoes. No. 157,035; July 25.
- Cunningham, A., Limited, Stewarton, Scotland. Coats, caps, bonnets, hats, gloves, hosiery, etc. No. 157,037; July 25.
- Curtiss Aeroplane and Motor Corporation, Buffalo and Garden City, N. Y. Airplanes. No. 157,038; July 25.
- Dadd & Ladd Trouser Company, Davenport, Iowa. Trousers and pants. No. 157,039; July 25.
- Dalton Manufacturing Corporation, Sound Beach, Conn. Turning lathes. No. 157,040; July 25.
- Davis, Walter M., doing business as D. S. Co., Coeur d'Alene, Idaho. Preparation for the relief of dyspepsia, indigestion, gas, etc. No. 157,257; July 25.
- Defender Photo Supply Company, Inc., Rochester, N. Y. Photographic paper. No. 157,041; July 25.
- De Klyn Candy Co., The, Cleveland, Ohio. Candy. No. 157,042; July 25.
- De La Rue, Thomas, and Company, Limited, London, England. Bottle stoppers and lids. No. 157,043; July 25.
- De La Vergne Machine Company, New York, N. Y. Steam and internal-combustion engines, air compressors, etc. No. 157,044; July 25.
- Denzer, Goodhart & Co., New York, N. Y. Men's hats. No. 157,045; July 25.
- Derwent Mills, Limited, Matlock Borough, England. Certain articles of clothing. No. 157,046; July 25.
- Dunbar Drop Forge Company, Chicago, Ill. Ferrous and nonferrous metal castings and forgings. No. 157,047; July 25.
- Electrozone Water Company, Oklahoma, Okla. Nonalcoholic beverages and purified drinking water. No. 157,049; July 25.
- Elektrizitätswerk Lonza, Gampel, Switzerland. Burners for lighting, heating, and cooking purposes. No. 157,050; July 25.
- Elias and Lowenstein Company, The, Cincinnati, Ohio. Bungalow aprons. No. 157,051; July 25.
- Essex Rubber Company, Trenton, N. J. Rubber soles and heels. No. 157,052; July 25.
- Etablissements Reynier. (See Reynier & Cie, assignors.)
- Eureka Steel Range Co., O'Fallon, Ill., and St. Louis, Mo. Steel coal, wood and combination of coal and gas and wood and gas ranges. Nos. 157,053-4; July 25.
- Evans, David G., Coffee Company, St. Louis, Mo. Coffee, tea, spices, vinegar, and flavoring extracts. No. 157,055; July 25.
- Excelsior Shoe Company, The, Portsmouth, Ohio. Shoes and boots. No. 157,056; July 25.
- Excelsior Wrapper Company, Chicago, Ill. Excelsior, excelsior products. No. 157,057; July 25.
- Fabrique d'Horlogerie de Fontainemelon S. A., Fontainemelon, Switzerland. Watch blanks. Nos. 157,058-9; July 25.

- Fairview Grape Growers Ass'n, Sanger, Calif. Fresh grapes. No. 157,060; July 25.
- Fatt, Joseph J., New York, N. Y. Men's outer garments. No. 157,061; July 25.
- Fierheller, George, Toronto, Ontario, Canada. Combined sponge and washrag. No. 157,062; July 25.
- Fisk Rubber Company, The, Chicopee Falls, Mass. Rubber tires, particularly the outer casings of automobile tires. No. 157,063; July 25.
- Flock Manufacturing Company, The, Philadelphia, Pa. Thread and yarn. No. 157,064; July 25.
- Forney & Co., Inc., New York, N. Y. Diapers and diaper material. No. 157,065; July 25.
- Fraim, E. T., Lock Company, The, Lancaster, Pa. Locks, latches, and padlocks. Nos. 157,066-7; July 25.
- Fredriksen, Hardy M., Tacoma, assignor to Spark-O Metals Company, Seattle, Wash. Metal terminals or electrodes for spark plugs. No. 157,068; July 25.
- Freed & Company, Chicago, Ill. Hats and caps for men and boys. No. 157,069; July 25.
- Fricks Company, Waynesboro, Pa. Ice-making and refrigerating machinery. No. 157,070; July 25.
- Friedman Bros. & Son Neckwear Company Inc., New York, N. Y. Ties, cravats, and four-in-hand ties. No. 157,071; July 25.
- Friedman, Max J., New York, N. Y. Men's nainsook athletic underwear. No. 157,072; July 25.
- Galloway, Wesley J., Sheffield, Ala. Liquid preparation for the treatment of whooping cough, croup, hoarseness, and bronchitis. No. 157,258; July 25.
- Gibson, Geo. R., Co., New York, N. Y. Hairbrushes and toothbrushes. No. 157,073; July 25.
- Ginsberg, I., & Bros., New York, N. Y. Women's cotton aprons and dresses. No. 157,074; July 25.
- Ginsberg, I., & Bros., New York, N. Y. Women's, misses, and children's dresses, skirts, and waists made of cotton fabric. No. 157,075; July 25.
- Goldberg, Isaac, New York, N. Y. Fabric slippers. No. 157,076; July 25.
- Goodhand, Smith & John, Wilmington, Del. and New York, N. Y. Leather fabric, etc., gloves. No. 157,077; July 25.
- Gordon, Hyman, New York, N. Y. Boots, shoes, leggings, spats, rubbers, gaiters, etc. No. 157,078; July 25.
- Gramercy Chocolate Company, Inc., New York, N. Y. Candy. No. 157,079; July 25.
- Grant Leather Corporation, Kingsport, Tenn. Leather belting. No. 157,080; July 25.
- Grant, W. T., Co., New York, N. Y. Saws. No. 157,259; July 25.
- Grasselli Chemical Company, The, Cleveland, Ohio. Fancy yarns and acetylcellulose thread. No. 157,081; July 25.
- Gray-Hathaway Wood Heel Company, Lynn, Mass. Wood heels. No. 157,082; July 25.
- Gray Motor Corporation, Detroit, Mich. Automobiles and their structural parts. No. 157,083; July 25.
- Greenbaum, Weil & Michels, San Francisco, Calif. Men's dress, work, and negligee shirts. No. 157,084; July 25.
- Green Top Company, The, New Iberia, La. Condiments and spices. No. 157,085; July 25.
- Grewen Fabric Company, Inc., Johnston, N. Y. Cloth gloves. No. 157,086; July 25.
- Grimberg, John, New York, N. Y. Garment hangers. No. 157,087; July 25.
- Griinnell, Maurice W., New York, N. Y. Textile fabric coated with waterproof material and having an ornamental finish. No. 157,088; July 25.
- Grover's, J. J., Sons Company, Lynn, Mass. Boots, shoes, slippers. No. 157,089; July 25.
- Guarantee Liquid Measure Company, Rochester, Pa. Measuring pumps for gasoline and oil. No. 157,260; July 25.
- H. & S. Manufacturing Company, Los Angeles, Calif. Trousers. No. 157,105; July 25.
- H-2-O Still Company, Baltimore, Md. Distilled water, nonalcoholic beverages, and sirups for making same. No. 157,090; July 25.
- Hadfields Limited, Sheffield, England. Fire fenders, furnace bars. No. 157,091; July 25.
- Hahn, Wm., & Co., Washington, D. C. Men's, women's, and children's shoes of leather and fabric. No. 157,093; July 25.
- Hall's, J. S., Sons, Knoxville, Tenn. Leather shoes. No. 157,092; July 25.
- Hardy, F. A., & Company, Chicago, Ill. Finger-piece eye-glass mountings. No. 157,094; July 25.
- Hargey, George L., Pottsville, Pa. Plumbers' tables and vise supports. No. 157,095; July 25.
- Hatcher, Mary, & Jenkins, Thomasville, Ga. Preparation used in the treatment of indigestion. No. 157,261; July 25.
- Hauser & Weil, New York, N. Y. Belts for men, women, and children. No. 157,262; July 25.
- Herzfeld-Phillippson Company, The, Milwaukee, Wis. Men's and boys' dress and negligee shirts. No. 157,096; July 25.
- Hess & Hopkins Leather Company, The, Rockford, Ill. Packings, gaskets, and washers of leather. No. 157,263; July 25.
- Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Work clothes in the nature of overalls, pants, and shirts. No. 157,097; July 25.
- Hill, Samuel J., Atlanta, Ga. Bedroom slippers made of fabric with soft-leather bottoms. No. 157,098; July 25.
- Hincher Manufacturing Company of Indiana, Washington, Ind. Trousers, skirt, coat, gown, and suit hangers. No. 157,099; July 25.
- Hitt Fireworks Company, Inc., Seattle, Wash. Fire-crackers. No. 157,100; July 25.
- Hochschild, Kohn and Co. Inc., Baltimore, Md. Vacuum cleaning machines. No. 157,264; July 25.
- Hoffman, F., & Sons, Inc., Newark, N. J. Beverages sold as soft drinks and sirups for making same. No. 157,265; July 25.
- Hoffman-Hayman Coffee Co., San Antonio, Tex. Coffee and tea. No. 157,101; July 25.
- Hollins, William, & Company Limited, London and Mansfield, England. Cloths of wool made by the yard or in the piece. No. 157,102; July 25.
- Hood Rubber Company, Watertown, Mass. Rubber heels. No. 157,103; July 25.
- Howard and Jones, Inc., New York, N. Y. Cloth in the piece of wool, cotton, or mixtures of same. No. 157,104; July 25.
- Hoyt, F., & Co., Philadelphia, Pa. Cologne water. No. 157,266; July 25.
- Hudson Tire Co., Inc., Newark, N. J. Rubber tires. No. 157,106; July 25.
- Huyck, F. C., & Sons, Albany, N. Y. Woolen and canvas camping or sleeping bags. Nos. 157,107-8; July 25.
- Ideal Shoe Manufacturing Company, Milwaukee, Wis. Shoes. No. 157,109; July 25.
- Independent Stove Company, Owosso, Mich. Stoves, ranges, furnaces, and combination coal and gas stoves. No. 157,110; July 25.
- India Company, The, Newark, N. J. Chewing gum. No. 157,111; July 25.
- Interlock Hardware Company, Inc., The, New Haven, Conn. Automobile luggage and tire carriers. No. 157,112; July 25.
- International Shoe Co., St. Louis, Mo. Shoes for men, women, and children, made of leather, rubber, fabric, or the combination thereof. No. 157,113; July 25.
- Irokee Trading Corporation, New York, N. Y. Boxed sets of changeable-feature games. No. 157,267; July 25.
- Irokee Trading Corporation, New York, N. Y. Packaged set of changeable-feature folding cards. No. 157,268; July 25.
- Johnson, Walter L., Endicott, N. Y. Glass milk bottles. No. 157,114; July 25.
- Jolley, L. G., & Son, Denver, Colo. Preparation for treating rheumatism and purifying the blood. No. 157,268; July 25.
- Kaplan, Simon, New York, N. Y. Hosiery. No. 157,116; July 25.
- Keane, Horace, Aeroplanes, Inc., New York, N. Y. Certain aeroplanes and parts thereof. No. 157,117; July 25.
- Keane, Horace, Aeroplanes, Inc., New York, N. Y. Tractor and carburetors. No. 157,118; July 25.
- Keesey Hosiery Company, Mount Holly, N. J. Hosiery of all kinds. No. 157,119; July 25.
- Kleimert, I. B., Rubber Company, New York, N. Y. Women's undergarments and sanitary pantalettes. No. 157,120; July 25.
- Knox Motors Company, Springfield, Mass. Internal-combustion engines and parts thereof and certain accessories thereof. No. 157,121; July 25.
- Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, Pa. Certain cars and parts thereof. No. 157,122; July 25.
- Krieg, J. K., Company, New York, N. Y. Combination leather and rubber heels for shoes. No. 157,271; July 25.
- Krippendorf-Dittmann Co., The, Cincinnati, Ohio. Ladies' and misses' leather shoes. No. 157,123; July 25.
- Kuh Brothers, San Francisco, Calif. Children's garments consisting of girls' rompers, play garments, and dresses. No. 157,124; July 25.
- Lapsley & Bro. Company, Baltimore, Md. Window shades. No. 157,272; July 25.
- Lawrence, R. S., London, England. Cut leather soles. No. 157,125; July 25.
- Leich, Charles, & Co., Evansville, Ind. Paper tablets, paperettes, envelopes, and boxes of sheet paper. No. 157,126; July 25.
- Levin, Nathan, Pittsburgh, Pa. Certain articles of clothing. No. 157,127; July 25.
- Lewis Manufacturing Co., Walpole, Mass. Certain piece goods. No. 157,128; July 25.
- Lichtig, B. & Son, Inc., Oakland, Calif. Rubber tires. No. 157,129; July 25.
- Lindsay Light Company, Chicago, Ill. Gas mantles. Nos. 157,130-1; July 25.
- Littlefield, W. H., and Company, Inc., Buffalo, N. Y. Women's and children's hats. Nos. 157,132-5; July 25.
- Lochman, John J., Carlstadt, N. J. Safety-razor-blade-stropping holders. No. 157,136; July 25.
- Loewe, D. E., & Co., Danbury, Conn. Men's and children's hats and caps. No. 157,137; July 25.
- Lowenthal, David H., & Co., New York, N. Y. Silk dresses. No. 157,138; July 25.
- McClave-Brooks Co., Scranton, Pa. Grates and stokers. No. 157,139; July 25.
- McConnell, Edward, & Co., New York, N. Y. Waterproofed textile fabrics. No. 157,140; July 25.
- McIntyre Bros., Cranford, N. J. Boats. No. 157,141; July 25.
- McVaugh, Wm. T., Company, Inc., New York, N. Y. Men's, ladies', children's, and infants' hosiery. No. 157,142; July 25.

- McVoy, John M., Springhill, Ala. Razor-strop dressing. No. 157,143; July 25.
- Manhattan Rubber Mfg. Co., The, Passaic, N. J. Rubber belting and hose. No. 157,144; July 25.
- Marvel Shock Absorber Corporation, The, Cleveland, Ohio. Shock absorbers for automobiles. No. 157,145; July 25.
- Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candles and chocolates. No. 157,146; July 25.
- Massasoit Manufacturing Company, Fall River, Mass. Mops. No. 157,147; July 25.
- Mater-Mack Co. Inc., The, Rochester, N. Y. Shoes and moccasins made of leather and of fabric for babies. No. 157,148; July 25.
- Meccano Limited, Liverpool, England. Electrical toys. No. 157,149; July 25.
- Medico Distributing Co. Inc., New York, N. Y. General medicinal tonic. No. 157,273; July 25.
- Meyer Cloak & Dress Co. Inc., Baltimore, Md. Ladies' dresses. No. 157,150; July 25.
- Mill-Rich Service, New York, N. Y. Men's wear and haberdashery, shirts, pyjamas, etc. No. 157,151; July 25.
- Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk, linen goods and mixtures in the piece. No. 157,153; July 25.
- Mills & Gibb Corporation, New York, N. Y. Fabric gloves. No. 157,152; July 25.
- Montgomery, J. R., Company, The, Windsor Locks, Conn. Yarns, warps, flosses, threads, and tinsel threads. No. 157,115; July 25.
- Morrison, Laurence W., Milwaukee, Wis. Leather slippers and shoes. No. 157,154; July 25.
- Moulton, Walter E., Geneva, Ohio. Lens. No. 157,155; July 25.
- Muller-Houseman Company, The, Grand Rapids, Mich. Vanilla flavoring compounds. No. 157,156; July 25.
- Munter, Charles, New York, N. Y. Certain articles of clothing. No. 157,157; July 25.
- Myers Dry Goods Co., Morristown, Tenn. Men's, women's, and children's knitted or textile underwear, sweaters, neckties, hats, etc. No. 157,158; July 25.
- Nathan, Morphy & Co., Inc., Lewiston, Me. Shoes. No. 157,159; July 25.
- National Billiard Chalk Co., Chicago, Ill. Billiard chalks. No. 157,274; July 25.
- Nelson, N. O., Manufacturing Company, St. Louis, Mo. Water-closet seats. No. 157,275; July 25.
- Newark Knitting Works. (See Seiss, Otto.)
- North Bros. & Co., Baltimore, Md. Men's and boys' dress and negligee shirts. No. 157,160; July 25.
- Northway Motors Corporation, Natick, Mass. Automobiles and motor-trucks. No. 157,161; July 25.
- Nova Heel Manufacturing Co., Berkeley, Calif. Heels of rubber and leather in combination. No. 157,162; July 25.
- Oberman, D., Mfg. Co., Jefferson City, Mo. Trousers. No. 157,163; July 25.
- Ohio Salt Company, The, Wadsworth, Ohio. Salt. No. 157,164; July 25.
- Oleicola Tarragona, S. A., Tarragona, Spain. Olive oil. No. 157,165; July 25.
- Oliver Knitting Company, Philadelphia, Pa. Bathing suits. No. 157,166; July 25.
- Oliver Knitting Company, Philadelphia, Pa. Hosiery. No. 157,167; July 25.
- Orange-Smash Co., Birmingham, Ala. Nonalcoholic, maltless, carbonated beverage sold as soft drink and sirup for same. No. 157,276; July 25.
- Ovington Bros. Company, New York, N. Y. Table knives, forks, and spoons, of base metal, scissors, etc. No. 157,168; July 25.
- Ovington Bros. Company, New York, N. Y. Chinaware, earthenware, porcelain. No. 157,169; July 25.
- Pangburn Company Inc., Fort Worth, Tex. Candies and ice cream. No. 157,170; July 25.
- Pasquier, Michel, New York, N. Y. Certain toilet preparations. No. 157,277; July 25.
- Pass, Wendel, Export, Pa. Combination awl tools for shoemakers and leather working. No. 157,278; July 25.
- Perfection Piston Ring Company, The, Ravenna, Ohio. Piston rings. No. 157,171; July 25.
- Perry, J. C. & Company, Indianapolis, Ind. Canned fruits, vegetables, and fish, vinegar. No. 157,172; July 25.
- Philip Carey Manufacturing Co., The, Lockland, Ohio. Certain construction material. No. 157,173; July 25.
- Pierce-Arrow Motor Car Company, The, Buffalo, N. Y. Internal-combustion engines and parts thereof. No. 157,174; July 25.
- Pierce, Percy, Philadelphia, Pa. Toy aeroplane. No. 157,175; July 25.
- Plant-Butler Company, The, Cincinnati, Ohio. Boots, shoes, and slippers. No. 157,176; July 25.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, slippers. Nos. 157,177-8; July 25.
- Post, Abram H., Chicago, Ill. Rebuilt typewriters, typewriter repair parts, etc. No. 157,179; July 25.
- Quaker Hat Company, New York, N. Y. Ladies' hats. No. 157,180; July 25.
- R. K. L. Company, Grand Rapids, Mich. Leather shoes and leather shoe soles. No. 157,189; July 25.
- Railway Lock-Spike Co., Atlanta, Ga. Railway spikes. No. 157,181; July 25.
- Raub Bros. & Co., Pittsburgh, Pa. Men's dress, negligee, and work shirts. No. 157,182; July 25.
- Raybestos Company, The, Bridgeport, Conn. Brake lining. No. 157,183; July 25.
- Raydeo Belt Co., Pleasant Ridge, Ohio. Automobile textile fan belts. No. 157,184; July 25.
- Reinance Die and Stamping Company, Chicago, Ill. Punch presses. No. 157,279; July 25.
- Reynier & Cie., assignor to Etablissements Reynier, Grenoble, France. Skin gloves. No. 157,186; July 25.
- Rice, A. H., Company, Pittsfield, Mass. Threads and yarns of silk and artificial silk. No. 157,187; July 25.
- Ridenour-Baker Grocery Company, Kansas City, Mo. Coffee. No. 157,188; July 25.
- Robbins, Charles H. D., Co. Inc., New York, N. Y. Women's dresses. No. 157,190; July 25.
- Robins, May, Fort Smith, Ark. Millinery and ladies' ready-to-wear garments. No. 157,191; July 25.
- Robinson, Lorena W., Dallas, Tex. Truck bodies. No. 157,192; July 25.
- Rombro Brothers, Baltimore, Md. Work shirts. No. 157,193; July 25.
- Rothschild & Sons, Kansas City, Mo. Combination sport shirt and drawers. No. 157,194; July 25.
- Royle Craven Company, Philadelphia, Pa. Bed sheets, pillowcases, and bolster cases. No. 157,036; July 25.
- Rubberhide Company, Boston, Mass. Boots and shoes of a combination of leather, rubber, and fabric. No. 157,195; July 25.
- Runyan, Arthur L., Omaha, Neb., assignor to The Anchor Grip-Heel Company, Willoughby, Ohio. Resilient heels for footwear. No. 157,196; July 25.
- Sachs Shoe Manufacturing Company, The, Cincinnati, Ohio. Shoes. No. 157,197; July 25.
- Saks & Company, New York, N. Y. Women's hats. No. 157,198; July 25.
- Samuels, M., & Co., Baltimore, Md. Leather, rubber, and fibrous boots, shoes, and slippers. No. 157,280; July 25.
- Sanitary Products Corporation of America, Philadelphia, Pa. Paper luncheon sets. No. 157,199; July 25.
- Sarasqueta, Victor, Elbar, Spain. Hunting guns. No. 157,281; July 25.
- Schreiber, Laura B., et al., trustees. (See Binder, R. C. R., and Schreiber.)
- Schriber, O. P., Company, The, Cincinnati, Ohio. Lifting jacks and lifting-jack bases. No. 157,200; July 25.
- Scranton Glass Instrument Company, Inc., Scranton, Pa. Hyetrometer syringes. No. 157,282; July 25.
- Sears, Roebuck & Co., Chicago, Ill. Women's blouses and waists. No. 157,201; July 25.
- Seiss, Otto, trading as Newark Knitting Works, Newark, N. J. Wool, Shetland floss, worsted, mohair, alpaca, etc. Nos. 157,202-3; July 25.
- Seneca Glove & Mitten Manufacturing Company, The, Tiffin, Ohio. Cotton gloves and mittens. No. 157,204; July 25.
- Siebler Clothes Company, The, Cincinnati, Ohio. Men's, young men's, and boys' suits, coats, trousers, knickerbockers, overcoats, etc. No. 157,205; July 25.
- Sigmund Eisner Company, Red Bank, N. J. Men's and boys' outer wearing negligee and work shirts. No. 157,048; July 25.
- Simons Manufacturing Company, Chicago, Ill. Lubricant for brake bands and the like. No. 157,283; July 25.
- Sinclair Millitor Corporation, New York, N. Y. Motor cycles, side cars, and trailers. No. 157,206; July 25.
- Sioux Cady Co., Sioux City, Iowa. Candies. No. 157,284; July 25.
- Societa Anonima Itala Film, Turin, Italy. Cinematograph films. No. 157,207; July 25.
- Societe Civile des Heritiers de P. Basset, Tassin la Demi-Lune, Rhone, France. General analgesic and medicine for neuralgia, headache, toothache, rheumatism, and grippe. No. 157,285; July 25.
- Soenksen-Wolf-Spiers Company, Inc., Aurora, Ill. Oil-cushion tappets. No. 157,286; July 25.
- Stadium Underwear Co. Inc., Baltimore, Md. Pyjamas, robes, and combination sets of pyjamas and robes. No. 157,208; July 25.
- Standard Auto Parts Co. of America, Newark, N. J. Electric signal lamps, particularly for motor vehicles. No. 157,288; July 25.
- Steel Products Engineering Company, The, Springfield, Ohio. Machine tools, etc. No. 157,209; July 25.
- Sterling Hosiery Co., Chicago, Ill. Men's, women's, and children's hosiery. No. 157,210; July 25.
- Sterling Parts Mfg. Co., Providence, R. I. Oil gauges. No. 157,289; July 25.
- Sterling Toy Works, Sterling, Ill. Stilts. No. 157,290; July 25.
- Stevens, Ernest, Limited, Cradley Heath, England. Culinary and kitchen utensils made of metal. No. 157,211; July 25.
- Stimpson, Edwin B., Company, Brooklyn, N. Y. Rivets. No. 157,291; July 25.
- St. Louis Pump & Equipment Company, St. Louis, Mo. Fluid-measuring pumps and meters. No. 157,287; July 25.
- Strouse-Baer Co., The, Baltimore, Md. Women's, misses', and children's suits, dresses, coats, shirts, etc., and boys' suits. No. 157,212; July 25.
- Sunbeam Knitting Mills, Inc., New York, N. Y. Sweaters. No. 157,213; July 25.
- Superior Knitting Company Inc., Port Carbon, Pa. Men's, boys', women's, misses', and children's knit underwear. No. 157,214; July 25.

- Sylva Knitting Company, Hamburg, Pa. Knitted underwear for women. No. 157,215; July 25.
- Tauber, Lipton & Co., New York, N. Y. Boys' and children's play suits. No. 157,216; July 25.
- Theonett & Co., Inc., Chicago, Ill. Maltless, nonalcoholic beverage and sirup for making the same. No. 157,217; July 25.
- Thermot Coal & Coke Co., Binghamton, N. Y. Coal and coke. No. 157,218; July 25.
- Thompson, Ernest, et al., executors. (See Thompson, Joseph.)
- Thompson, Joseph, deceased; T. S. Woodcock, W. Thompson, and E. Thompson, executors, Sheffield, England. Certain cutting tools for working wood and metals. No. 157,219; July 25.
- Thompson, William, et al., executors. (See Thompson, Joseph.)
- Thornycroft, John I., & Co. Limited, Westminster, England. Commercial motor vehicles. No. 157,220; July 25.
- Thurm, Browne & Cohen, Inc., New York, N. Y. Hair nets. No. 157,221; July 25.
- Tiedemann, Theo., & Sons, Inc., New York, N. Y. Garments for burial purposes. No. 157,222; July 25.
- Traylor Engineering & Manufacturing Company, Allentown, Pa. Motor trucks and trailers. No. 157,223; July 25.
- Treadwell Engineering Company, Easton, Pa. Certain machinery. No. 157,222; July 25.
- Trexler Company, The, Philadelphia, Pa. Tire carriers. No. 157,224; July 25.
- Tri-Plex Shoe Company, Philadelphia, Pa. Boots and shoes made of leather and fabric. No. 157,225; July 25.
- Tubstuff Company Incorporated, Seattle, Wash. Play-stuffs for little girls. No. 157,226; July 25.
- Tuscan Tire & Rubber Company, The, Carrollton, Ohio. Rubber tires for automobiles. No. 157,227; July 25.
- Twistout Thumb Tack Company, Germantown, Pa. Thumb tacks. No. 157,228; July 25.
- U. S. Yarn Co., Inc., Brooklyn, N. Y. Mercerized and cotton yarns and artificial and thrown silk. No. 157,233; July 25.
- Union Tool Company, Torrance, Calif. Gas engines and oil-well tools and equipment. No. 157,229; July 25.
- United Mills Company, Incorporated, Louisville, Ky. Hosiery. No. 157,230; July 25.
- United States Overall Manufacturing Company, The, Cincinnati, Ohio. Overalls, coveralls, work shirts, etc. No. 157,231; July 25.
- United States Corporation, St. Louis, Mo. Sheet-rubber patches. No. 157,232; July 25.
- Vaughan, George A., & Co., Putnam, Conn. Mechanically-operated boat lowering and hoisting gear. No. 157,234; July 25.
- Vernor, James, Company, Detroit, Mich. Ginger ale and ginger-ale extract. No. 157,293; July 25.
- Vick Chemical Company, Greensboro, N. C. Medicinal salve for croup, colds, pneumonia, catarrh, etc. No. 157,235; July 25.
- Virden Packing Company, San Francisco, Calif. Smoked meats, sausages, and frankfurters, lard, salad oil, etc. No. 157,236; July 25.
- Voorhees, Joseph P., New York, N. Y. Boys' ribbed hose. No. 157,237; July 25.
- Waddell, William W., Chicago, Ill. Soap. No. 157,294; July 25.
- Walker-Matteson Company, Joliet, Ill. Fruit-jar rings. No. 157,238; July 25.
- Walker-Matteson Company, Joliet, Ill. Cigars. No. 157,239; July 25.
- Walter Baker & Company, Ltd., Boston, Mass. Ten-pound cakes of sweet-chocolate coatings. No. 156,994; July 25.
- Wayne Knitting Mills, Fort Wayne, Ind. Hosiery. No. 157,295; July 25.
- Webb, Arthur M., New York, N. Y. Women's and children's knitted underwear, hosiery, sweaters, etc. No. 157,240; July 25.
- Weimann, Jens, Odense, Denmark. Coats, trousers, skirts, hats, and caps, made from leather or leather products. No. 157,241; July 25.
- Weimann, Jens, Odense, Denmark. Certain articles of clothing and protective apparel. No. 157,242; July 25.
- Wenzel, H., Tent & Duck Company, St. Louis, Mo. Tarpaulin, wagon covers, and tents. No. 157,243; July 25.
- Westfield Manufacturing Company, Westfield, Mass. Bicycles and parts thereof. No. 157,244; July 25.
- White, M. J., Lees Summit, Mo. Metal solder and aluminum solder. No. 157,296; July 25.
- Whiting Paper Company, Holyoke, Mass. Writing papers and mailing envelopes. No. 157,245; July 25.
- Wichert & Gardiner, Brooklyn, N. Y. Shoes, slippers, boots, etc. No. 157,246; July 25.
- Williams, A. G., Home Made Candy Co. Inc., New Orleans, La. Candies. No. 157,247; July 25.
- Wilson Bohannon, Inc., Brooklyn, N. Y. Locks. No. 157,254; July 25.
- Wilson, Robert L., Tyler, Tex. Washing powder. No. 157,297; July 25.
- Wincroft Stove Works, Middletown, Pa. Gas and coal stoves. No. 157,248; July 25.
- Wing, Russell T., St. Cloud, Minn. Headlight lenses. No. 157,249; July 25.
- Woodcock, Timothy S., et al., executors. (See Thompson, Joseph.)
- Worthington Pump and Machinery Corporation, New York, N. Y. Pumping machinery, pumps, vacuum pumps, and air and gas compressors. No. 157,250; July 25.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

- Barber, F. P., and R. K. Kirby, Brattleboro, Vt. "Stratton's Liniments." (For Bottles Containing Liniment.) No. 24,743; July 25.
- Billings Player Roll Company, Milwaukee, Wis. "Staff-notes." (For Boxes Containing Player Rolls for Piano Players.) No. 24,744; July 25.
- Callahan, Joseph A., Lynn, Mass. "KB Handy Shoe Shiner Cloth." (For Paper-Box Container and on Label Affixed to Cloth.) No. 24,745; July 25.
- Callaway, George McDaniel, San Antonio, Tex. "Cre-Cal-Co." (For Containers of a Solution Decalcified Creosote.) No. 24,746; July 25.
- De Giorgio, Rosario, Los Angeles, Calif. "Tastee." (For Cantaloupes.) No. 24,747; July 25.
- Hallberg, Fred, Chicago, Ill. "Bungalow Brand." (For Salad Dressing.) No. 24,748; July 25.
- Hartmann, Jane, Bound Brook, N. J. "Home Made Orange Marmalade." (For Orange Marmalade.) No. 24,749; July 25.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Carbon Crystal Laundry Blue." (For Containers Holding Zanzibar Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,750; July 25.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Carbon Non-Sour Blue." (For Containers Holding Zanzibar-Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) No. 24,751; July 25.
- Heller, B., & Company, Chicago, Ill. "Zanzibar-Carbon Combination Laundry Blue." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,752; July 25.
- Kirby, R. K. (See Barber, F. P., and Kirby.)
- Knight, Clarence A., Medford, Oreg. "Rogue River Valley Fruit Crater Lake Brand." (For Packages Containing Fresh Deciduous Fruits.) No. 24,753; July 25.
- Laird Manufacturing Co. Inc., The, Richmond, Va. "Richmond Maid." (For Baking Powder.) No. 24,754; July 25.
- Mead Johnson & Co. Evansville, Ind. "Dexter Malto No. 3." (For Infants' Food.) No. 24,755; July 25.
- Northrup, King & Co., Minneapolis, Minn. "Queen." (For Cartons of Japanese Hull-less Popcorn.) No. 24,756; July 25.
- North American Honey Distributors. (See Van Schuetz, Samuel F.)
- Old Style Malt Extract Co., Chicago, Ill. "Old Style Purest and Best Malt Extract." (For Malt Extracts.) No. 24,757; July 25.
- Pacific Coast Biscuit Company, Seattle, Wash. "Long Branch." (For Saltine Flakes.) No. 24,758; July 25.
- Pastene, P., & Co. Inc., Boston, Mass. "La Napoletana." (For Peeled Tomatoes.) No. 24,759; July 25.
- Phospho Food Co. Inc., Los Angeles, Calif. "Cream of Bran." (For Cereals.) No. 24,760; July 25.
- Phospho Food Co. Inc., Los Angeles, Calif. "Phospho." (For Nut-Brown Meal.) No. 24,761; July 25.
- Seltzer, Theodore, West Hoboken, N. J. "Ben-Gay." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) No. 24,762; July 25.
- Shane Bros. & Wilson Co., Minneapolis, Minn. "King Midas." (For Toasted Wheat Cereal.) No. 24,763; July 25.
- Spokane Valley Growers Union, Opportunity, Wash. "Pineland." (For Apples.) No. 24,764; July 25.
- Stern, Joseph & Sons, Inc., New York, N. Y. "Hudson Refined Pure Lard." (For Pure Lard.) No. 24,765; July 25.
- Van Schuetz, Samuel F., doing business as North American Honey Distributors, Council Bluffs, Iowa. "Pure Honey." (For Honey.) No. 24,766; July 25.
- Western New York Fruit Growers' Co-Operative Packing Ass'n, Inc., Rochester, N. Y. "Cataract Brand." (For Fresh Fruits.) No. 24,767; July 25.
- Widlar Co., The, Cleveland, Ohio. "Widlar's Genuine." (For Mocha and Java Coffee.) No. 24,768; July 25.
- Withers Brothers, Los Angeles, Calif. "Sombrero." (For Cantaloupes.) No. 24,769; July 25.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

American Piano Company, Jersey City, N. J., and New York, N. Y. "Ampico." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) No. 6,223; July 25.
 Cream of Wheat Co., Minneapolis, Minn. "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,224; July 25.
 Cream of Wheat Co., Minneapolis, Minn. "Little Simon." (For Advertising Purposes for Wheat Breakfast Food.) No. 6,225; July 25.
 Heinz, H. J. Co., Pittsburgh, Pa. "Heinz Vinegar Every Drop Awaken Flavor." (For Advertising Purposes for Heinz Vinegars.) No. 6,226; July 25.
 Holbrook Pie Baking Co. Inc., Albany, N. Y. "The Pie in The Pievelope." (For Advertising Purposes for Pies.) Nos. 6,227-8; July 25.
 Palmolive Company, The, Milwaukee, Wis. "What is the matter with your hair?" (For Advertising Purposes for Shampoo.) No. 6,229; July 25.

Sealpax Co., The, Baltimore, Md. "What is she saying?" (For Advertising Purposes for Sealpax Athletic Underwear.) No. 6,230; July 25.
 Somerville Brush Company, Somerville, Mass. "No Home Complete Without a Sum-Vil Dry Mop." (For Advertising Purposes for Mops.) No. 6,231; July 25.
 Stowell, J. C., Company, The, Ithaca, N. Y. "University." (For Advertising Purposes for Cigars.) No. 6,232; July 25.
 Sweater & Knitted Textile Publicity Bureau, Inc., Baltimore, Md. "Knitted Outerwear deserves the preference." (For Advertising Purposes for Knitted Outerwear.) No. 6,233; July 25.
 Tompkins, Wallace W., Buffalo, N. Y. "Hypex." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) No. 6,234; July 25.
 Western Fruits Products Co., Dubuque, Iowa. "Vin-Rose." (For Advertising Purposes for a Fruit Beverage.) No. 6,235; July 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aarons & Homes, New York, N. Y. Women's, girls', and misses' dresses, suits, coats, etc. No. 157,874; July 25.
 Aboussleman, Joseph M., doing business as Youth-Ami Laboratories, New York, N. Y. Toilet preparations. No. 161,344; July 25.
 Adams, Paul M., Co., The, Baltimore, Md. Writing paper, envelopes, paper napkins and blotters, wax paper, etc. No. 164,688; July 25.
 Alchemic Gold Company, Incorporated, New York, N. Y. Printing ink, ink pigments, and vehicles used with pigments for compounding inks. No. 162,095; July 25.
 Ambercruide Products Co. (See Sampson, Gertrude I.) Amber-olatum Laboratory. (See Ketels, John F.)
 American Company for International Commerce, New York, N. Y. Cotton sheeting. No. 161,102; July 25.
 American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Baggage manufactured from jute fiber. No. 139,493; July 25.
 Angelus Powder Puff Co., The. (See Calisher, Joseph H.)
 Arend, A., Drug Co., Chicago, Ill. Medicinal preparation for treatment of nerves, stomach, liver, etc. No. 149,532; July 25.
 Argo Fabrics Corporation, The, Philadelphia, Pa. Knitted fabrics. No. 162,094; July 25.
 Ark, Barnett, North Adams, Mass. Coats, overcoats, trousers, and knickerbockers. No. 156,731; July 25.
 Armstrong Cork Company, Pittsburgh and Lancaster, Pa. Rubber heels. No. 160,040; July 25.
 Ashmun, F. E., Company, Providence, R. I. Finger rings. No. 163,078; July 25.
 Asselin, Homer L., doing business as Raelin Products Company, San Francisco, Calif. Liver tablets. No. 160,842; July 25.
 Atlas Portland Cement Company, The, North Hampton, Pa., and New York, N. Y. Stucco. No. 163,075; July 25.
 Auld Acquaintance Co., The, Grand Rapids, Mich. Toilet and pharmaceutical preparations. No. 159,334; July 25.
 Banner Shirt Co. Inc., New York, N. Y. Dress, negligee, soft, and sport shirts. No. 145,054; July 25.
 Barry, T. D., Company, Brockton, Mass. Shoes. No. 161,023; July 25.
 Beach Chemical Company, St. Louis, Mo. Medicinal preparation for relief of colds, la grippe, fever, etc. No. 161,956; July 25.
 Bear Hops, Malt & Extract Co., Brooklyn, N. Y. Malt sirup. No. 161,717; July 25.
 Benaderet, Samuel, San Francisco, Calif. Egyptian cigarettes. No. 164,220; July 25.
 Beneke & Kropf Manufacturing Company, Chicago, Ill. Carburetors, thermostatic controls for internal-combustion engines, etc. No. 151,076; July 25.
 Bennett & Wedeen Inc., New York, N. Y. Hosiery, underwear, knit goods, gloves, shirts, shoes, etc. No. 155,951; July 25.
 Berbecker, Julius, & Sons, Inc., New York, N. Y. Hand sewing needles. No. 161,166; July 25.
 Berger, L. D., doing business as L. D. Berger Company, Philadelphia, Pa. Eaves-trough hangers, conductor hooks and fasteners. No. 157,596; July 25.
 Bernstein, De Frece, New York, N. Y. Watchcases and watches. No. 159,998; July 25.
 Bianchini, Férier, Lyon, France. Piece goods of silk, cotton, wool, and hairs. Nos. 165,005-7; July 25.

Biozone Syndicate Limited, The, London, England. Salts, medicinal bath salts, nasal douche, gargle, and cattle salts. No. 154,474; July 25.
 Black, Carl A., doing business as J. Peck & Co., Cleveland, Ohio. Writing ink and ink powder. No. 156,439; July 25.
 Blake, McFall Company, Portland, Oreg. Wrapping paper. No. 161,295; July 25.
 Bliss, Elmer J., Boston, Mass. Boots and shoes. No. 145,545; July 25.
 Blumenthal, Sidney, & Co. Inc., assignor to Central Union Trust Company of New York, trustee, New York, N. Y. Pile fabrics in the piece. No. 138,036; July 25.
 Boehm, Alfred, trading as Lynx Knitting Mills, New York, N. Y. Hosiery, knitted, and woven underwear, and undersuits. No. 157,208; July 25.
 Booth, Wilfrid I., Elmira, N. Y. Candy. No. 159,402; July 25.
 Brown & Bigelow, St. Paul, Minn. Pencils. Nos. 164,186-7; July 25.
 Buck Mix Productions, Inc., New York, N. Y. Motion-picture films. No. 160,655; July 25.
 Burnham, E., Inc., Chicago, Ill. Brilliantine. No. 160,473; July 25.
 Burton Bros. & Co., New York, N. Y. Cotton shirting in the piece. No. 160,631; July 25.
 California Peanut Company, Oakland, Calif. Salted peanuts. No. 159,010; July 25.
 Calisher, Joseph H., trading as The Angelus Powder Puff Co., New York, N. Y. Powder puffs of all descriptions. No. 161,974; July 25.
 Campbell, John, & Co., New York, N. Y. Color-stripping and dye-removing compound. No. 161,110; July 25.
 Cameo Record Corporation, New York, N. Y. Phonograph records. No. 159,143; July 25.
 Carlisle, Bert, Santa Ana, Calif. Toy flying machines. No. 150,729; July 25.
 Carnahan Manufacturing Company. (See Middleworth, James O.)
 Carpenter-Morton Company, Boston, Mass. Bleaching compounds. No. 161,033; July 25.
 Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. No. 160,232; July 25.
 Carter, J. W., & Co., Nashville, Tenn. Boots and shoes made wholly or in part of leather. No. 160,234; July 25.
 Carter, Thomas, & Sons, Inc., New York, N. Y. Handkerchiefs. No. 162,916; July 25.
 Central Union Trust Company of New York, trustee. (See Blumenthal, Sidney & Co., assignors.)
 Champion Tool Company, Meadville, Pa. Farriers' tools. No. 152,415; July 25.
 Champion Tool Company, Meadville, Pa. Farriers' and cobblers' tools. No. 152,416; July 25.
 Champion Tool Company, Meadville, Pa. Farriers' tools. No. 152,418; July 25.
 Chemical Products Company, Kent, Wash. Chemical products to be used for the destruction of noxious weeds. No. 150,591; July 25.
 Coca-Cola Bottling Co. (See Furcotte, Lucien F.)
 Collins, Harry, Inc., New York, N. Y. Ladies' dresses, suits, wraps, and fur pieces. No. 157,985; July 25.
 Comer, Fetterly & Co. Inc., Union Hill, N. J., and New York, N. Y. Pharmaceutical preparations for faulty digestion. No. 161,719; July 25.

- Cortland Line Co., Inc., Cortland, N. Y. Fishing lines. No. 164,391; July 25.
- Cortland Line Co., Inc., Cortland, N. Y. Silk fishing lines. Nos. 164,392-4; July 25.
- Cortland Line Co., Inc., Cortland, N. Y. Japan-silk fishing lines. Nos. 164,396-7; July 25.
- Cortland Line Co., Inc., Cortland, N. Y. Fishing lines. No. 164,398; July 25.
- Dasco Import Co., Inc., New York, N. Y. Smoking pipes, cigar and cigarette holders, pipe cleaners, etc. No. 163,215; July 25.
- Davenport Hosiery Mills, Chattanooga, Tenn. Knitted, cloth, and woven underwear for men, ladies, and children. No. 158,469; July 25.
- Decoater Company, The, Chicago, Ill. Toothbrushes. No. 162,921; July 25.
- Deep River Mills, Inc., Randleman, N. C. Gingham in the piece. No. 153,875; July 25.
- De Nobili Cigar Co., Inc., Long Island City and New York, N. Y. Cigars. No. 165,275; July 25.
- Dickinson & Co., Inc., Minneapolis, Minn. Glare and storm shields, windshields, and wind-deflecting wings. No. 164,238; July 25.
- Dog World Publishing Co., Chicago, Ill. Monthly publication. No. 161,823; July 25.
- Dreifus, Tichner & Eckstein, assignors, by mesne assignments, to Tichner Bros., New York, N. Y. Hosiery. No. 140,430; July 25.
- Duffy-Mott Company, Inc., New York, N. Y. Ciders and fruit juices. No. 165,065; July 25.
- Dunleavy, George W., Cambridge, Mass. Hair tonics. No. 161,038; July 25.
- Eli Lilly & Company, The, Indianapolis, Ind. Medicinal preparations for use as an aphrodisiac and metabolic stimulant. No. 161,365; June 25.
- Eli Lilly & Company, The, Indianapolis, Ind. Medicinal preparation for use as a sedative and hypnotic. No. 161,367; July 25.
- Erlanger, N., Blumgart & Co., Inc., New York, N. Y. Cotton textiles in the piece. Nos. 162,538-9; July 25.
- Esterbrook Steel Pen Mfg. Co., The, Camden, N. J. Pens and fountain pens. No. 155,741; July 25.
- Excelsior Tobacco Co., St. Louis, Mo. Smoking and chewing tobacco. No. 141,000 $\frac{1}{2}$; July 25.
- Falk Tobacco Company Incorporated, New York, N. Y. Cigarettes. Nos. 164,878-9; July 25.
- Faultless Rubber Company, The, Ashland, Ohio. Golf balls. No. 163,866; July 25.
- Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Barley malt sirup for beverage purposes. No. 163,685; July 25.
- Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Hop and malt sirup for beverage purposes. No. 163,686; July 25.
- Finkelstein, Morris, doing business as Victory Malt Company, Brooklyn, N. Y. Barley-malt sirup for beverage purposes. No. 163,687; July 25.
- Fischer, Albert C., doing business as Serviced Products Company, Chicago, Ill. Garters, neckties, collars, hose, etc. No. 130,822; July 25.
- Floramol Chemical Co. (See Palmer, Charles E.)
- Fold O-Lock Steering Wheel Mfg. Corp., Wichita, Kans. Steering wheels for motor vehicles. No. 163,868; July 25.
- Fort Dummer Mills, Brattleboro, Vt. Cotton piece goods. Nos. 164,413-14; July 25.
- Frankenthaler & Frankenthaler, New York, N. Y. Hair ribbons. No. 158,675; July 25.
- Frazar & Company, New York, N. Y. Human-hair nets. No. 164,898; July 25.
- Fulton, David H. & Bro., Baltimore, Md. Laxative tablets. Nos. 161,725-6; July 25.
- Furcotte, Lucian F., doing business as Coco-Cola Bottling Co., Lowell, Mass. Nonalcoholic, noncereal, maltless beverage, and sirup for making same. No. 165,467; July 25.
- Geiger, Henry W., New York, N. Y. Vocal-music exercises. No. 157,835; July 25.
- General Phonograph Corporation, New York, N. Y. Needles for talking machines and phonograph needles. No. 164,105; July 25.
- Glenby's, S., Sons Co., Inc., New York, N. Y. Hair nets. No. 164,419; July 25.
- Glenby's, S., Sons Co., Inc., New York, N. Y. Hair nets. No. 164,424; July 25.
- Goldberg, Eli F., Rochester, N. Y. Razors, shears, and files. No. 146,433; July 25.
- Goldstein & Levin, Philadelphia, Pa. Outer skirts. No. 150,105; July 25.
- Grant, W. T., Company, New York, N. Y. Stair carpeting and tapestry rugs. No. 160,759; July 25.
- Grasselli Chemical Company, The, Cleveland, Ohio. Fumigating materials, fungicides, and insecticides. No. 160,703; July 25.
- Hague, A. J. & Co., Inc., New York, N. Y. Hand sewing needles. Nos. 159,263-4; July 25.
- Hancock-Smiths, Incorporated, Baltimore, Md. Liquid antiseptic and mouth wash. No. 161,775; July 25.
- Hatfield Electric Company, Indianapolis, Ind. Periodical publications. No. 163,397; July 25.
- Hassel, R., Cigar Co., Richmond Hill, N. Y. Cigars. No. 163,799; July 25.
- Hastings, G. T., Company, The. (See Hastings, George T.)
- Hastings, George T., doing business as The G. T. Hastings Company and The Snowite Laboratories, New York, N. Y. Perfume, face powder, talcum, lip sticks, camphor-ice sticks, etc. Nos. 162,000-1; July 25.
- Henderson, Thomas A., Merchantville, N. J. Cigars. No. 161,435; July 25.
- Herzfeld-Phillipson Company, The, doing business as Milwaukee Boston Store, Milwaukee, Wis. Razor strops. No. 126,029; July 25.
- Hess, Goldsmith & Co., Inc., New York, N. Y. Silk, satin, and crêpe piece goods. No. 162,406; July 25.
- Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. No. 165,019; July 25.
- Holtite Manufacturing Co., Baltimore, Md. Rubber heels for shoes. No. 159,799; July 25.
- Hooker Electrochemical Company, Niagara Falls, N. Y. Insecticides. Nos. 161,836-7; July 25.
- Hubbuck, Thomas, & Son Limited, London, England. Sulphates, chlorides, and acetates of metals, perfumes, etc. No. 123,579; July 25.
- Hup Mfg. Co., Inc., New York, N. Y. Golf-ball markers. No. 163,151; July 25.
- Independent Products Co., New York, N. Y. Barley malt. No. 158,927; July 25.
- International Toy Company, Limited, Montreal, Quebec, Canada. Velocipedes and go-carts for children. No. 160,018; July 25.
- Iskowitz, Charles, New York, N. Y. Hosiery. No. 158,394; July 25.
- Jamison, Mrs. W. K., et al., trustees. (See Lecar Carbon Company, assignor.)
- Jamison, Walter K., et al., trustees. (See Lecar Carbon Company, assignor.)
- Jansen & Pretzfeld, Inc., New York, N. Y. Silk in the piece. No. 164,646; July 25.
- Jensen, Julian B., doing business as Pacific Engineering Co., Oakland, Calif. Rotary and centrifugal pumps. No. 144,526; July 25.
- Johnson-Randall Co., Traverse City, Mich. Refrigerators and ice boxes. No. 163,400; July 25.
- Kalu, Thomas D., Chicago, Ill. Chemical exterminators for rats, mice, and vermin. No. 143,095; July 25.
- Kantar, Alexander, Pittsburgh, Pa. Antiseptic liquid. No. 160,710; July 25.
- Kemp & Beantley, Inc., New York, N. Y. Embroidery yarns. No. 125,959; July 25.
- Kenilworth Manufacturing Co., Inc., New York, N. Y. Knickers. No. 156,745; July 25.
- Kendall Products Corporation, New York, N. Y. Detergent preparations—viz, soap products. No. 159,659; July 25.
- Ketels, John F., doing business as Amber-o-latium Laboratory, Springfield, Oreg. Ointment for colds, croup, etc. No. 161,318; July 25.
- King, E. & F., & Company, Inc., Boston, Mass. China clay, and plain and colored bases for dressing, whitening, and fulling compounds. No. 162,880; July 25.
- Koike, Jitsutaro, doing business as Nippon Dry Goods Co., San Francisco, Calif. Silk, cotton, woolen, and fiber textiles and mixtures thereof. No. 163,338; July 25.
- Konikov Chemical Laboratories, The. (See Konikov, William M.)
- Konikov, William M., doing business as The Konikov Chemical Laboratories, Boston, Mass. Medicated compound for female ailments. No. 161,133; July 25.
- Kranish Bros., New York, N. Y. Binding tapes, elastic webbing, dress belting. No. 160,554; July 25.
- Ladd, William M., Lake City, Iowa. Dry-cleaning preparation for cleaning fabric and like goods. No. 153,816; July 25.
- Lamb Knit Goods Co., The, Colon, Mich. Sweaters, bathing suits, caps, and gloves. No. 158,480; July 25.
- Lay Rite Laboratory, St. Louis, Mo. Face powder and perfumes. No. 161,841; July 25.
- Lecar Carbon Company, assignor to W. K. Jamison, S. B. Mathewson, H. F. Marston, Mrs. W. K. Jamison, and Mrs. S. B. Mathewson, trustees of the Lecar Carbon Company, Springfield, Ohio, a trust estate. Carbonizing compound. No. 161,889; July 25.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. No. 163,093; July 25.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 164,329-30; July 25.
- Lesh, C. P., Paper Company, Indianapolis, Ind. Writing, printing, and book paper. Nos. 164,332-3; July 25.
- Levish, Thomas, Chicago, Ill. Monthly magazine. No. 162,023; July 25.
- Lewis, A. T., & Son Dry Goods Company, The, Denver, Colo. Leather shoes. No. 161,927; July 25.
- Lingner-Werke Aktiengesellschaft, Dresden, Germany. Medicinal preparations for skin diseases, periostitis, infected wounds, etc. No. 162,121; July 25.
- Linton & Scott, New York, N. Y. Toilet paper. No. 150,970; July 25.
- Liverpool Borax Co., Limited, The, Liverpool, England. Size for use in connection with woolen warps and for finishing textile piece goods. No. 161,135; July 25.
- Loes, Franz E., New York, N. Y. Sirup for cough and catarrh. No. 162,120; July 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

xix

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Logan-Johnson, Limited, Boston, Mass. Nonalcoholic, maltless, fruit sirups for making soft drinks. No. 158,189; July 25.
- Los Angeles Soap Co., Los Angeles, Calif. Laundry soap. No. 148,745; July 25.
- Lynx Knitting Mills. (See Boehm, A.)
- Macniven and Cameron Limited, Edinburgh, Scotland. Writing and note paper, envelopes, etc. No. 164,335; July 25.
- Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. No. 164,934; July 25.
- Marston, Howard F., et al., trustees. (See Lecar Carbon Company, assignor.)
- Martin, Charles F., Fairmont, W. Va. Maltless beverage sold as a soft drink. No. 164,254; July 25.
- Marvellum Company, The, Holyoke, Mass. Cover paper. Nos. 164,709-10; July 25.
- Matthews, Mrs. S. B., et al., trustees. (See Lecar Carbon Company, assignor.)
- Mathewson, Stanley B., et al., trustees. (See Lecar Carbon Company, assignor.)
- McDowell, Bert, Co., The, Sacramento, Calif. Groceries and grocery specialties. No. 159,042; July 25.
- McInnes-Walker Co., Milwaukee, Wis. Coffee. No. 158,879; July 25.
- McLeod & Niesz, Buffalo, N. Y. Medicinal ointment for piles, sunburn, cuts, boils, etc. No. 159,324; July 25.
- Merck, E., Darmstadt, Germany. Dihydrooxycodoinonchlorhydrate. No. 161,847; July 25.
- Merck, E., Darmstadt, Germany. Colloidal silver preparation combined with sodium cholate as protective colloid. No. 161,848; July 25.
- Merck, E., Darmstadt, Germany. Methylene-blue silver compound. No. 161,849; July 25.
- Merck, E., Darmstadt, Germany. Acetylsalicyloyltheobromine. No. 161,850; July 25.
- Merck, E., Darmstadt, Germany. Preparation of barium sulphate used in X-ray diagnosis. No. 161,851; July 25.
- Merck, E., Darmstadt, Germany. Suspension of animal charcoal of the highest adsorptive power ready for injections. No. 161,852; July 25.
- Meyer, A. C., & Co. (See Trust Estate of Adolph C. Meyer.)
- Midland Chemical Laboratories, Inc., Dubuque, Iowa. Liquid, soft, automobile, and surgical soaps, scrubbing compound, metal polish, etc. No. 151,954; July 25.
- Middleworth, James O., doing business as Carnahan Manufacturing Company, San Diego, Calif. Oil gauges. No. 151,765; July 25.
- Miller-Fatland Novelty Co., Chicago, Ill. Combination inhalers, remedy for catarrh, hay fever, etc. No. 161,931; July 25.
- Milwaukee Boston Store. (See Herzfeld-Phillipson Company.)
- Misner Manufacturing Co., Detroit, Mich. Toilet specialties. No. 162,032; July 25.
- Mix, Julius, doing business as J. Mix & Sons, London, England. Cigarettes. No. 164,283; July 25.
- Modern Beverage Company, Chicago, Ill. Nonalcoholic maltless beverages. No. 163,592; July 25.
- Mohawk Bottling Company. (See Pittsfield Coca Cola Bottling Corporation.)
- Morgan, Sarah M., Belvedere, Calif. Recipes. No. 161,443; July 25.
- Morse & Burt Co. Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations. No. 161,441; July 25.
- Musical Courier Company, Inc., New York, N. Y. Musical magazine published weekly. No. 160,361; July 25.
- National Aniline & Chemical Company, Inc., New York, N. Y. Dyes, dyestuffs, and colors. No. 148,510; July 25.
- New England Commercial Co., Inc., New York, N. Y. Cotton piece goods. No. 161,506; July 25.
- Nichols, James B., Memphis, Tenn. Preparation for treatment of lung trouble. No. 159,280; July 25.
- Nippon Dry Goods Co. (See Koike, Jitsutaro.)
- Noesting Pin Ticket Company, Incorporated, Mount Vernon, N. Y. Paper clamps and clips, thumb tacks, pin tickets, and ring clips. No. 164,659; July 25.
- Odell, R., & Sons Company, Newark, N. J. Liquid preparation for controlling stubborn hair. No. 161,940; July 25.
- Oriental Silk Printing Company, Haledon, N. J., and New York, N. Y. Silk, cotton, and silk and cotton goods in the piece. No. 162,438; July 25.
- Otterson Auto-Eductor Co., The, Springfield, Ohio. Vehicular apparatus having means adapted to be lowered into sewer catch basin. No. 144,041; July 25.
- Pacific Engineering Co. (See Jensen, Julian B.)
- Palmer, Charles E., doing business as Floramol Chemical Co., Baltimore, Md. Antiseptic healing ointment for treatment of sores, cuts, burns, etc. No. 161,793; July 25.
- Palmer, Tom A., Akron, Ohio. Friction matches. No. 162,445; July 25.
- Peck, J., & Co. (See Black, Carl A.)
- Perlmann, Schal & Stern, New York, N. Y. Doilies. No. 163,053; July 25.
- Pittsfield Coca Cola Bottling Corporation, also doing business as Mohawk Bottling Company. Nonintoxicating, noncereal maltless beverage and sirups used in preparation of same. No. 165,413; July 25.
- Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers. No. 160,776; July 25.
- Plaza Music Co., New York, N. Y. Player-piano rolls. No. 164,771; July 25.
- Pneumatic Scale Corporation, Limited, Norfolk Downs, Mass. Mechanical packaging machinery. No. 142,357; July 25.
- Post, Leo L., Forest Hills, N. Y. Cigarettes. No. 155,446; July 25.
- Power Supply Company, Terre Haute, Ind. Electrical apparatus, machines, and supplies. No. 145,645; July 25.
- Prym, William Co. Ltd. (See Solow, N., assignor.)
- Queen City Bottling Company, The, Cincinnati, Ohio. Nonintoxicating fruit beverage and sirup used in preparation of same. No. 158,333; July 25.
- Queen City Printing Ink Company, The, Cincinnati, Ohio. Printing inks. No. 160,427; July 25.
- Raelin Products Company. (See Asselin, Homer L.)
- Reese, Simon, Sioux City, Iowa. Cigars. No. 163,947; July 25.
- Rich, E. C., Inc., New York, N. Y. Gelatin. No. 159,105; July 25.
- Rimer, Orrseamies S., doing business as Sweetola Company, Dayton, Ohio. Powder preparation for use as a body deodorant. No. 161,896; July 25.
- Ringwalt Works, Inc., New Brunswick, N. J. Felt-base floor coverings. No. 162,582; July 25.
- Rip Van Winkle Wall Bed Company, Oakland, Calif. Wall beds. No. 139,429; July 25.
- Robert-Morton Company, The, San Francisco, Calif. Orchestral pipe organs. No. 161,704; July 25.
- Rogers Brothers, New York, N. Y. Face and talc powders, almond lotion, cold cream, etc. No. 161,453; July 25.
- Rogers, Charles E., doing business as Rogers Drug Store, Geary, Okla. Foot powder. No. 150,290; July 25.
- Rogers Drug Store. (See Rogers, Charles E.)
- Samek & Lobel, New York, N. Y. Ladies' silk undergarments, negligees, and corsets. No. 156,602; July 25.
- Sampson, Gertrude I., doing business as Ambrocure Products Co., Philadelphia, Pa. Preparation for the treatment of the hair and scalp. No. 161,946; July 25.
- Schering & Glatz, Inc., New York, N. Y. Medicinal preparation recommended as a pain alleviation. No. 161,902; July 25.
- Schlichtmann, Philip J., doing business as The Slick Drug Co., Philadelphia, Pa. Preparation used for gargling. No. 161,757; July 25.
- Schneider, Battinus & Simon, Chicago, Ill. Hair nets. No. 164,968; July 25.
- Schweibold, Martin and J., Philadelphia, Pa. Radioreceiving apparatus. No. 160,156; July 25.
- Scintilla, Solothurn, Switzerland. Physical and meteorological instruments, registering instruments, recording apparatus, etc. No. 136,044; July 25.
- Seel, Reidar G., New York, N. Y. Medicinal preparation of a sedative character. No. 161,942; July 25.
- Servicised Products Company. (See Fischer, Albert C.)
- Shackman, B., & Co., New York, N. Y. Souvenir or favor container. No. 164,127; July 25.
- Shaffer, M., Company, The, Philadelphia, Pa. Hair tonic. No. 161,208; July 25.
- Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. No. 164,226; July 25.
- Sinclair, John, Ltd., Newcastle-on-Tyne, England. Smoking tobacco and cigarettes. No. 162,143; July 25.
- Skantzé, Henry, & Co., Gottenberg, Sweden. Shoe creams. No. 158,016; July 25.
- Slick Drug Co., The. (See Schlichtmann, Philip J.)
- Small, L. K., Company, Los Angeles, Calif. Fresh citrus fruits. No. 159,059; July 25.
- Smallwood Stone Company, The, Steubenville, Ohio. Pulp stones for wood-pulp-working machines, machinery, and tools, and parts thereof. No. 154,387; July 25.
- Smith, Absalom, Eau Claire, Wis. Ointment for eczema, ulcers, itch, sores, ringworm, etc. No. 160,976; July 25.
- Smith, Robert W., Salt Lake City, Utah. Combined writing paper and envelope. No. 162,711; July 25.
- Snowite Laboratories, The. (See Hastings, George T.)
- Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Bleaching compounds, powders, and fluids, chemical products for removing rust stains, dyestuffs, etc. No. 146,087; July 25.
- Société Anonyme des Produits du Lion Noir, Montrouge, near Paris, France. Bleaching compounds, powders, and fluids, dyestuffs, etc. No. 146,089; July 25.
- Solow, N., New York, N. Y., assignor to William Prym Co. Ltd., Stolberg, Rhineland, Germany. Pins, hooks and eyes, and snap fasteners. No. 154,999; July 25.
- Sonora, Inc., New York, N. Y. Talking machines and phonographs. No. 160,779; July 25.
- Standard Oil Company, (Incorporated in New Jersey.)
- Bayonne, N. J. Petroleum, petrolatum greases and oils. No. 161,279; July 25.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Stein, A. & Company, Chicago, Ill. Household aprons, girdle supporters, and baby pants. No. 148,624; July 25.
- Stein, Charles, New York, N. Y. Umbrellas and parasols. No. 158,159; July 25.
- Stewart, Clarence R., Spokane, Wash. Toy catapults and targets. No. 161,154; July 25.
- Strype, Fred C., New York, N. Y. Wrapping and writing paper, writing tablets, envelopes, typewriter, bond, and ledger paper, and blank books. No. 162,067; July 25.
- Sum-Shine Polish Co., Columbus, Ohio. Metal polish. No. 149,363; July 25.
- Super Saffee Ink Corporation, New York, N. Y. Writing ink. No. 157,238; July 25.
- Sweetola Company. (See Rimer, Orrseamies S.)
- Tappan Stove Company, The, Mansfield, Ohio. Gas and coal ranges and stoves. No. 161,393; July 25.
- Tierstedt Manufacturing Company, Detroit, Mich. Windshield wipers of the squeegee type. No. 163,898; July 25.
- Tichner Bros. (See Dreifus, Tichner & Eckstein, assignors.)
- Tonepen Company, New York, N. Y. Phonograph needles. No. 161,015; July 25.
- Tri-Star Noodle Factory, Chicago, Ill. Noodles. No. 159,061; July 25.
- Trust Estate of Adolph C. Meyer, deceased, trading as A. C. Meyer & Co., Baltimore, Md. Pills having laxative and tonic properties. No. 161,462; July 25.
- United States Dental Specialty Co., San Francisco, Calif. Tooth paste. No. 161,288; July 25.
- Valley Remedy Co., Sullivan, Ind. Cold capsules. No. 161,659; July 25.
- Van Eps-Burr Corporation, New York, N. Y. Banjos. No. 162,077; July 25.
- Van Sant, Wilbur N., Baltimore, Md. Monthly publication. No. 155,649; July 25.
- Vega Company, The, Boston, Mass. Banjos. Nos. 161,708-9; July 25.
- Vega Company, The, Boston, Mass. String, wind, and percussion musical instruments. No. 164,845; July 25.
- Vermeulen, Leendert, Waddinxveen, near Gouda, Netherlands. Ointment for treatment of burns, scalds, etc. No. 145,481; July 25.
- Vernon Manufacturing Co., Mount Vernon, N. Y. Ammonia. Nos. 158,270-1; July 25.
- Victory Malt Company. (See Finkelstein, Morris.)
- Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft, Berlin, Germany. Talking machines, dictating machines, and records for talking machines. No. 160,167; July 25.
- Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsted, woolen, worsted and cotton, woolen and cotton, and worsted and silk piece goods. No. 164,736; July 25.
- Watts, Stephen K., New York, N. Y. Cotton goods, linens, madras, and other cotton fabrics. No. 161,869; July 25.
- White, Edward F., doing business as The White Products Company (a firm), Norfolk, Va. Preparation for the treatment of coughs, bronchitis, croup, rheumatism, etc. No. 159,301; July 25.
- White Products Company (a firm), The. (See White, Edward F.)
- White-Washburne Company Inc., Hinsdale, N. H. Toilet paper. Nos. 164,739-41; July 25.
- Wiley-Bickford-Sweet Co., The, Worcester, Mass. Knit goods in the piece. No. 157,051; July 25.
- Wilson Chemical Company, The. (See Wilson, George C.)
- Wilson, George C., trading as The Wilson Chemical Company, Tyrone, Pa. Face cream. No. 161,079; July 25.
- Wix, J. and Sons. (See Wix, Julius.)
- Wix, Julius, doing business as J. Wix and Sons, London, England. Smoking and chewing tobacco, cigarettes, cigars, and snuff. No. 165,248; July 25.
- Wolff, Alexander & Co., New York, N. Y. Men's and boys' suits. No. 155,286; July 25.
- Wolverine Supply and Manufacturing Company, Pittsburgh, Pa. Sand and marble operated mechanical toys. Nos. 160,222-4; July 25.
- Youth-Ami Laboratories. (See Aboussleman, Joseph M.)

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1922.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

- Account register, Credit-. H. A. Martin. No. 1,423,953; July 25.
- Acids, Production of dicarboxylic. A. G. Williams. No. 1,423,980; July 25.
- Acids, Treating sludge. I. Hechenbleikner and T. C. Oliver. Nos. 1,423,766-7; July 25.
- Adjustable wrench. W. A. Martin. No. 1,423,723; July 25.
- Aeroplane. G. L. Banks. No. 1,424,130; July 25.
- Aeroplane. J. Hayes. Nos. 1,423,610-11; July 25.
- Aeroplane. E. Wilder. No. 1,424,055; July 25.
- Aeroplane fuselage and building same. E. G. Bahl. No. 1,424,066; July 25.
- Aeroplanes, Attachment for. A. F. Erickson. No. 1,423,789; July 25.
- Aeroplanes, Steering wheel for. W. C. Hurst. No. 1,424,143; July 25.
- Air, Sterilizing. A. Wolff. No. 1,423,704; July 25.
- Airplane. G. B. Post. No. 1,423,661; July 25.
- Airplanes, Dual control for. B. D. Thomas. No. 1,424,049; July 25.
- Airships, System or method of feeding combustion engines for. A. Boerner. No. 1,423,987; July 25.
- Alarm systems, Detector for. F. E. Crawford. No. 1,423,601; July 25.
- Ammonia-soda process, Conducting the. E. E. Arnold and P. St. Clair, jr. No. 1,423,510; July 25.
- Animal trap. J. A. Hedberg. No. 1,423,715; July 25.
- Antiskid device. T. J. O'Neil. No. 1,423,963; July 25.
- Arsenical compounds, Manufacture of. K. B. Edwards. No. 1,424,006; July 25.
- Ash receptacle. R. Ozabal. No. 1,423,538; July 25.
- Atomizer. H. C. Brehmer. No. 1,423,989; July 25.
- Automobile accessory. G. D. Orr. No. 1,423,730; July 25.
- Automobile buffer. G. A. Lyon. Nos. 1,423,571-2; July 25.
- Automobile bumper. W. E. Williams. No. 1,423,894; July 25.
- Automobile bumper-attaching hanger. W. G. Pancoast and W. J. Grotenhuis. No. 1,423,874; July 25.
- Automobile direction indicator. J. B. Blair. No. 1,424,070; July 25.
- Automobile hoods, Fastening device for. F. Mathews. No. 1,423,773; July 25.
- Automobile lock. S. G. Miller. No. 1,423,955; July 25.
- Automobile lock. J. Sokolov. No. 1,423,691; July 25.
- Automobile radiator shutters, Supporting and actuating means for. A. P. Wolfe. No. 1,423,982; July 25.
- Automobile tail light. A. O. Svedahl. No. 1,424,047; July 25.
- Automobile theft signal. H. M. Lake and O. C. Betry. No. 1,424,106; July 25.
- Automobile top closures, Securing means for. H. E. Adams. No. 1,424,061; July 25.
- Automobile top, One-man. J. Davis. No. 1,423,916; July 25.
- Automobiles, Truck attachment for. D. J. Fuhrer. No. 1,423,931; July 25.
- Bag. See—
- Golf bag.
- Bag, Golf. J. S. White. No. 1,423,891; July 25.
- Bag holder. C. R. Hellstrom. No. 1,424,017; July 25.
- Bag holder. B. F. Miller. No. 1,424,026; July 25.
- Ball. I. De Gowin. No. 1,423,837; July 25.
- Ball-winding machine. E. G. Loomis. No. 1,423,807; July 25.
- Balls, Method and apparatus for covering. I. De Gowin. No. 1,423,838; July 25.
- Basket handle and lid fastener. G. R. Fowler. No. 1,424,009; July 25.
- Battery cover. B. Kunkel. No. 1,424,144; July 25.
- Bearing, Antifriction ball or roller. K. O. Leon. No. 1,423,950; July 25.
- Bearing, Ball. L. Langhaar. No. 1,423,666; July 25.
- Bearing, Water-cooled. J. Herman. No. 1,424,097; July 25.
- Red-bottom fabric. E. Drefs. No. 1,423,918; July 25.
- Red corner. A. Izen. Nos. 1,423,664-5; July 25.
- Red-rail fastener. A. S. Putnam. No. 1,423,623; July 25.
- Beds, Drawer attachment for. C. Kontorowitz. No. 1,423,804; July 25.
- Reds, Rail-fastening device for. J. Findura. No. 1,424,089; July 25.
- Ree escape. H. D. Rogers. No. 1,423,883; July 25.
- Belt. M. J. Maakestad. No. 1,424,110; July 25.
- Belt conveyer, Self-training. M. A. Kendall. No. 1,423,528; July 25.
- Bib, Creeper. M. F. Hale. No. 1,424,013; July 25.
- Bill fold. C. L'Enfant. No. 1,423,669; July 25.
- Bin-filling shut-off. M. L. and A. L. Bremer. No. 1,423,990; July 25.
- Binders, Grain holder for. L. H. Stowell. No. 1,424,122; July 25.
- Blank-handling mechanism. R. C. Simmons. No. 1,423,630; July 25.
- Block. See—
- Traveling block.
- Boat. J. Solack. No. 1,424,044; July 25.
- Boiler. See—
- Steam boiler.
- Bone resector. F. E. Miller. No. 1,423,866; July 25.
- Bore gauge. H. M. Rockwell. No. 1,423,542; July 25.
- Bottle, Milk. J. G. Hall. No. 1,423,560; July 25.
- Bottles, etc., Carrier for. A. F. Brautigam. No. 1,424,076; July 25.
- Bottle stoppers, Holder for hot-water. F. E. Baldwin. No. 1,423,593; July 25.
- Box. See—
- Sound box.
- Box. E. J. Thole. No. 1,424,127; July 25.
- Box and the like. S. S. Booty. No. 1,424,071; July 25.
- Box-nailing machine. E. C. Northrup. No. 1,423,778; July 25.
- Bracket. F. P. Miller. No. 1,423,535; July 25.
- Braiding or similar machines, Yarn retriever for. S. W. Wardwell. No. 1,423,587; July 25.
- Brake. See—
- Fluid-pressure brake. Vehicle brake.
- Brake. G. B. Youngs. No. 1,424,059; July 25.
- Brake-beam release and support. C. H. Williams. No. 1,423,892; July 25.
- Brake mechanism. W. C. Baker. No. 1,423,901; July 25.
- Brass, Manufacture of. P. Dutoit. No. 1,423,922; July 25.
- Broach. J. Oakley. No. 1,423,814; July 25.
- Broom holder. J. L. Oefinger. No. 1,423,678; July 25.
- Brush for talking machines. T. S. Grow. No. 1,423,523; July 25.
- Bucket, Agitating and dumping. G. Johnson. No. 1,424,102; July 25.
- Bucket holder, Paint-. C. J. and U. J. Mohr. No. 1,423,726; July 25.
- Buffer, Resilient. G. A. Lyon. No. 1,423,573; July 25.
- Buffer, Resilient front. G. A. Lyon. No. 1,423,570; July 25.
- Building construction. E. A. Laughlin. No. 1,423,949; July 25.
- Bumper-bar fender. W. W. Edwards. No. 1,423,604; July 25.
- Buoys, Device for launching ring life. S. E. Hansen. No. 1,423,561; July 25.
- Burner. See—
- Oil burner. Pilot-light burner.
- Burner regulator. A. G. Sherman. No. 1,423,627; July 25.
- Butter-cutting machine, Automatic. I. C. Popper. No. 1,424,117; July 25.
- Button and making same, Hose-supporter. L. D. Christie. No. 1,423,599; July 25.
- Cabinet, Milk or cream. W. P. Fry. No. 1,423,714; July 25.
- Cable guard, Crown-block. V. W. Zilen. No. 1,423,550; July 25.
- Calculating machine. G. A. Seib. No. 1,423,741; July 25.
- Calculating machine. O. Woodward. No. 1,423,637; July 25.
- Calculating rule. W. L. Wyckoff. No. 1,423,896; July 25.
- Cameras, Automatic focusing device for enlarging. F. J. Callier. No. 1,423,997; July 25.
- Candle-making machine. R. Grossmann. No. 1,423,608; July 25.
- Can-filling apparatus. W. L. Jones. No. 1,423,944; July 25.
- Can-washing machine. W. H. Paulsen. No. 1,423,816; July 25.
- Cant hook, Unbreakable. J. W. Stolle. No. 1,423,781; July 25.
- Cap. J. Carlson. No. 1,423,829; July 25.
- Car buffers, Yielding resistance unit for. R. D. Gallagher, jr. No. 1,423,522; July 25.
- Carburetor. C. A. Norlander. No. 1,423,579; July 25.
- Carburetor and feeder, Pulverized-fuel. W. H. Whitaker. No. 1,424,053; July 25.
- Car coupling. F. W. H. Hamann. No. 1,423,796; July 25.
- Car-door lock. N. Hill. No. 1,423,562; July 25.

- Car-loading device, Tank-. E. H. Rudolph. No. 1,424,037; July 25.
- Car, Scooter. W. Bunde. No. 1,423,994; July 25.
- Car-seat construction. F. Andrusyszyn. No. 1,423,508; July 25.
- Cars, Winding shaft and chain guard for dump. O. L. Burford and H. De Bardeleben. No. 1,423,752; July 25.
- Carton sealer. G. K. Henderson. No. 1,424,018; July 25.
- Car wheels, Washer for mine-. R. F. Phillips and L. J. McCloskey. No. 1,423,877; July 25.
- Carrier: *See*—
- Grain carrier. Tire carrier.
- Scaffold carrier.
- Case: *See*—
- Key case.
- Cask, drum, or the like, Metal. S. C. Mount. No. 1,423,673; July 25.
- Caster, Ball-bearing. W. W. Noeling. No. 1,424,028; July 25.
- Caster pintles, Locking means for. G. F. Van Meter. No. 1,423,700; July 25.
- Casting process. G. Engel, sr. No. 1,423,654; July 25.
- Catalyzing material, Preparing. E. Weintraub. No. 1,423,978; July 25.
- Cementing and protecting composition. L. E. Barringer. No. 1,423,985; July 25.
- Cement tie and rail fastener. A. L. Crane. No. 1,423,600; July 25.
- Centrifugals, Method of and means for washing. R. A. Steps. No. 1,423,583; July 25.
- Chain lock. L. J. Wand. No. 1,423,974; July 25.
- Chains, Flight for conveyer. S. V. Tench. No. 1,424,126; July 25.
- Chaplets, Machine for making. R. P. Throne. No. 1,423,586; July 25.
- Chair: *See*—
- Convertible chair. Folding chair.
- Desk and chair. Rail chair.
- Check and stub, Bank. D. L. Sterling. No. 1,423,744; July 25.
- Check, Creep. L. O. Henggi. (Reissue.) No. 15,421; July 25.
- Chute, Coal. E. E. Neal. No. 1,423,872; July 25.
- Chute, Discharge. R. E. Gibson and H. Nicoll. No. 1,424,010; July 25.
- Chute support. G. Buchan, sr. No. 1,423,643; July 25.
- Cigar rest. L. Allen. No. 1,423,507; July 25.
- Cigars, Slitting attachment for. W. M. Jackson. (Reissue.) No. 15,422; July 25.
- Cinematograph. J. Szczepanik. No. 1,423,697; July 25.
- Cinematographic film. S. Kucharski. No. 1,423,770; July 25.
- Clamp. W. C. Heatlie. No. 1,423,933; July 25.
- Clamp, H. Rigert. No. 1,424,034; July 25.
- Clasp: *See*—
- Lingerie clasp.
- Cleaner: *See*—
- Suction cleaner.
- Clock, Call. C. R. Gains. No. 1,424,092; July 25.
- Closure. F. E. Baldwin. No. 1,423,592; July 25.
- Clothesline adjuster. G. Cole. No. 1,424,084; July 25.
- Clothesline hanger. F. O. Lake. No. 1,423,530; July 25.
- Clothesline support. C. F. Franzen. No. 1,423,762; July 25.
- Clutch. D. G. Roos. No. 1,424,036; July 25.
- Clutch and reversing mechanism, Electromagnetic. E. J. Murphy. No. 1,424,027; July 25.
- Clutch, Dog. W. Skafie. No. 1,423,631; July 25.
- Clutch-lever retainer. M. L. Cline and F. Herge. No. 1,424,081; July 25.
- Coal-handling device. H. D. Bartlett. No. 1,423,986; July 25.
- Coating metals for the purpose of permitting electric currents to operate by the action of light. Composition for. H. I. Falk. No. 1,424,088; July 25.
- Coating or sealing composition. M. I. Strauss. No. 1,423,821; July 25.
- Coffee roaster. N. B. Post. No. 1,423,818; July 25.
- Coffin. J. H. Harper. No. 1,423,848; July 25.
- Coke ovens, Automatic regulator for. W. M. Shallcross. No. 1,424,042; July 25.
- Color-matching room. G. S. Radford. No. 1,423,882; July 25.
- Comb-cutting machine. H. Schelhammer. Nos. 1,423,967-8; July 25.
- Combs, Machine for making. C. E. Wing and H. Schelhammer. No. 1,423,981; July 25.
- Concentrating table and method. V. F. Newman and M. W. Loomis. No. 1,423,777; July 25.
- Concrete beams, Mold for. S. Bruun. No. 1,423,708; July 25.
- Concrete building structure. J. Partee. No. 1,423,779; July 25.
- Concrete products such as blocks, panels, and structures, Molding of. J. Woolcock. No. 1,423,983; July 25.
- Cone-winding machines, Attachment for. A. A. Johnson. No. 1,424,100; July 25.
- Confectionery, Dispensing and display holder for. H. D. Foss. No. 1,423,845; July 25.
- Connecting rod. F. A. Dreher. No. 1,423,788; July 25.
- Connector switch. G. A. Yanochowski. No. 1,423,897; July 25.
- Containers, Apparatus for sealing. N. P. Bach. No. 1,423,591; July 25.
- Control system. C. P. Connely. No. 1,424,003; July 25.
- Convertible chair. H. C. Bunnell. No. 1,423,995; July 25.
- Cooking utensil. W. J. Murphy. No. 1,423,961; July 25.
- Cop or bobbin holder. E. Adell and C. A. Brink. No. 1,423,824; July 25.
- Corn planter. P. I. Garner. No. 1,423,932; July 25.
- Cotton gins, Breast-actuating mechanism for. J. R. Hubbard. No. 1,424,021; July 25.
- Coupling: *See*—
- Car coupling. Tractor coupling.
- Crank cases, Oil-level-indicating attachment for. A. F. Gillet. No. 1,423,558; July 25.
- Crate, Folding. A. H. Blakemore. No. 1,423,596; July 25.
- Crate, Folding. J. W. Lucabaugh. No. 1,423,863; July 25.
- Crib. A. Izen. No. 1,423,663; July 25.
- Current motor. E. S. Hicks. No. 1,423,717; July 25.
- Curtain-window light. J. B. Schaaf. No. 1,423,685; July 25.
- Cut-out device, Pneumatic. C. C. Farmer. No. 1,424,007; July 25.
- Cutter: *See*—
- Vegetable cutter.
- Cutting apparatus. N. M. Johnson. No. 1,424,133; July 25.
- Cutting machine. P. S. Mitts and W. J. Winston. No. 1,423,867; July 25.
- Cutting tool, Circle-. M. A. Butterfield. No. 1,423,828; July 25.
- Danger signal. W. F. Moran. No. 1,423,727; July 25.
- Davit, Automatically-braked. A. P. Schat. No. 1,423,739; July 25.
- Desk and chair. O. G. Henderson. No. 1,423,661; July 25.
- Dicyandiamide, Making. H. C. Hetherington and J. M. Braham. No. 1,423,799; July 25.
- Diastock. J. Konigsberg. No. 1,423,945; July 25.
- Differential mechanism. G. C. Jett. No. 1,423,941; July 25.
- Direction indicator. J. W. Wheeler, jr. No. 1,423,588; July 25.
- Dishpan. E. G. Taylor. No. 1,423,548; July 25.
- Disk wheel, Metal. J. A. Charter. No. 1,423,598; July 25.
- Display rack. G. A. Taylor. No. 1,423,585; July 25.
- Distillation of material carrying a percentage of volatile matter. G. M. Johns. No. 1,423,527; July 25.
- Diving apparatus. J. C. Eckert, jr. No. 1,423,923; July 25.
- Door buffer. J. Galamb. No. 1,423,521; July 25.
- Door lock and applying the same. W. Anderson. No. 1,423,825; July 25.
- Door lock, Sliding-. F. Andrusyszyn. No. 1,423,509; July 25.
- Double-gear jack, Quick-action. A. W. Marr. No. 1,423,671; July 25.
- Dress guard. A. H. De Voe. No. 1,423,602; July 25.
- Drill. A. L. Hawkesworth. No. 1,423,849; July 25.
- Drilling device. W. S. McBride. No. 1,424,109; July 25.
- Drills, etc., Connecting rod for. H. J. Kimmman. No. 1,423,614; July 25.
- Drills, Detachable bit for. H. H. Des Roches. No. 1,423,713; July 25.
- Drying apparatus. R. B. Hibbard, D. J. Watrous, and J. G. Bassette. No. 1,423,800; July 25.
- Drying process and apparatus. C. Field. No. 1,423,928; July 25.
- Dust cap. A. B. Catterall. No. 1,423,515; July 25.
- Ear trumpet for truck drivers. E. W. Hofstatter. No. 1,423,802; July 25.
- Electrical apparatus. L. A. Haworth. No. 1,424,016; July 25.
- Electrical oscillation generator. L. F. Fuller. No. 1,424,141; July 25.
- Electrical plants, Device for automatically controlling the output of. M. Doloukhanoff. No. 1,423,839; July 25.
- Electric contact wires, Means for the suspension of. M. Semenza. No. 1,423,582; July 25.
- Electric controlling apparatus. F. H. Bullinger. No. 1,423,907; July 25.
- Electric fixture. F. L. Butler. No. 1,423,646; July 25.
- Electric fixtures, Switch-supporting attachment for. F. L. Butler. No. 1,423,645; July 25.
- Electric-lighting fixture. P. L. Haislip. No. 1,424,095; July 25.
- Electric-lighting fixtures, Stem for. E. Rockoff. No. 1,423,683; July 25.
- Electric machine, Dynamo-. A. H. Mittag. No. 1,423,958; July 25.
- Electric machines, Arc barrier for dynamo-. J. L. Burnham. No. 1,423,996; July 25.
- Electrolyzing solutions, Apparatus for. K. E. Stuart. No. 1,423,584; July 25.
- Electronplating process. N. V. Park. No. 1,423,815; July 25.
- Electroplating. L. Schulte. No. 1,423,686; July 25.
- Elevator and mine shafts, Automatic gate mechanism for. C. Drum. No. 1,423,919; July 25.
- Engine: *See*—
- Internal-combustion engine. Internal-combustion and hot-air engine.
- Engine governor. J. B. Reogle. No. 1,424,140; July 25.
- Engines, Fuel-supply apparatus for internal-combustion. W. C. Carter. No. 1,423,913; July 25.

- Engines, Ignition apparatus for internal-combustion. N. Winblad. No. 1,424,056; July 25.
- Engines, Magneto ignition system for internal-combustion. J. L. Milton. No. 1,423,672; July 25.
- Engines, Spark-testing device for gasoline. W. P. Mott. No. 1,423,622; July 25.
- Envelope. H. J. Eickoff. No. 1,423,653; July 25.
- Envelope. B. A. Larsen. No. 1,424,024; July 25.
- Envelope-feeding mechanism. C. Chisholm. (Reissue.) No. 15,419; July 25.
- Equalizer, Four-horse. J. Robson. No. 1,423,682; July 25.
- Excavator. J. A. Gilman. No. 1,424,093; July 25.
- Extractor. D. H. Benjamin and A. R. Curtis. No. 1,423,827; July 25.
- Fabric-cutting apparatus. J. F. Hennessy. No. 1,423,798; July 25.
- Fan wheel. R. W. Oswald. No. 1,423,964; July 25.
- Fastener-setting machine. W. Shaw. No. 1,423,626; July 25.
- Fastening means and applying same. M. Craighead. No. 1,423,833; July 25.
- Feed roller. P. H. Vaughn. No. 1,423,783; July 25.
- Feeder, Poultry. C. E. Canell. No. 1,424,079; July 25.
- Feeder, Stock. A. J. Davis. No. 1,423,915; July 25.
- Feeding device. F. S. Thurston. No. 1,423,698; July 25.
- Fence post. W. P. Heckler. No. 1,423,934; July 25.
- Fender. *See*—
Bumper-bar fender.
- Fertilizer distributor. D. C. Daniel. No. 1,423,649; July 25.
- File, Storage. S. C. Huffman. No. 1,423,936; July 25.
- Filing tray or drawer. C. C. Carpenter. No. 1,424,080; July 25.
- Flame and cutting tools, Plate for resisting. R. S. Edmondson. No. 1,423,652; July 25.
- Flower receptacle. J. Brettschneider. No. 1,423,906; July 25.
- Fluid gauge, Visible. M. W. Joy. No. 1,424,104; July 25.
- Fluid-pressure brake. E. M. Richards. No. 1,424,033; July 25.
- Fluids, Means for controlling the flow of. C. H. Cochran. No. 1,423,831; July 25.
- Flushing apparatus. L. Solheid. No. 1,423,634; July 25.
- Flushing mechanism. O. H. Theelen. No. 1,423,888; July 25.
- Flying machine. T. Vuia. No. 1,423,636; July 25.
- Folding chair. H. E. Barrows. No. 1,423,594; July 25.
- Folding chair. P. H. Peters. No. 1,424,031; July 25.
- Frequency changer. A. H. Mittag. No. 1,423,959; July 25.
- Frequency regulator. L. Espenschied. No. 1,423,518; July 25.
- Fuel, Means for continuous pre-drying of. O. Nordström and A. Möck. No. 1,423,728; July 25.
- Furnaces, Liquid-cooled conduit for. H. A. Poppenhusen. No. 1,423,540; July 25.
- Fuse, Impact. S. G. Malby. No. 1,424,112; July 25.
- Garbage and refuse of towns, Apparatus for working. G. Beccari. (Reissue.) No. 15,417; July 25.
- Garden tool. A. Miller. No. 1,423,865; July 25.
- Garment fastener. R. J. Mulvey. No. 1,423,813; July 25.
- Garment fastener. W. Zimmerman. No. 1,423,590; July 25.
- Garment-supporting device. E. Bowler. No. 1,423,749; July 25.
- Garments, Slide for the straps of. C. E. Anderson. No. 1,423,639; July 25.
- Gas, Apparatus for and process of purifying. A. L. Stevens. No. 1,423,696; July 25.
- Gasoline and the like, Producing. J. C. Clancy. No. 1,423,709; July 25.
- Gasoline purifier. W. J. Sedelbauer. No. 1,423,970; July 25.
- Gas producer and process. E. M. Braxton. No. 1,424,077; July 25.
- Gauge. *See*—
Bore gauge. Ring gauge.
Heel gauge. Tank gauge.
Lamp gauge. Visible fluid gauge.
Pressure draft gauge.
- Gear housing. J. A. Neathammer. No. 1,423,675; July 25.
- Generator. *See*—
Electrical oscillation gen- Ozone generator.
erator.
- Glove and making same. G. P. Bosworth. No. 1,424,072; July 25.
- Glove, Reversible. J. L. Speer. No. 1,423,546; July 25.
- Gluer, Top. L. E. La Bombard and M. H. Sidebotham. No. 1,423,567; July 25.
- Gocarts and invalid chairs, Robe for children's. E. R. C. Buchard. No. 1,423,908; July 25.
- Grain and a product for effecting the same, Cooking. H. M. Greene. No. 1,424,132; July 25.
- Grain carrier. O. B. Hall. No. 1,423,609; July 25.
- Gun retracting mechanism. B. P. Joyce. No. 1,424,105; July 25.
- Gyrotary motion, Driving mechanism for producing. B. Neal and G. H. Hebebrand. No. 1,423,871; July 25.
- Hair clipper, Electric. L. David. No. 1,423,756; July 25.
- Hairpin. T. Gregory. No. 1,423,606; July 25.
- Hair slide. O. E. Buley. No. 1,423,644; July 25.
- Handle. E. A. Weibel. No. 1,424,052; July 25.
- Hanger. *See*—
Clothes hanger.
- Heat economizer, Waste-. J. E. Bell. No. 1,423,826; July 25.
- Heat exchanger or condenser. P. St. Clair, jr. No. 1,423,695; July 25.
- Heater unit. H. A. Silverman. No. 1,423,742; July 25.
- Heating device, Electric. W. F. Lebzelter. No. 1,423,806; July 25.
- Heating devices, Fuel feed for. F. S. Seymour. No. 1,424,041; July 25.
- Heating drum. C. A. De Jaco. No. 1,423,651; July 25.
- Heel-breasting machine. R. C. Simmons. No. 1,423,743; July 25.
- Heel fastener. L. Cerf. No. 1,423,787; July 25.
- Heel gauge. J. S. Lansill. No. 1,423,859; July 25.
- Heel-log-cutting machine. J. E. Mitchell and D. Parks. No. 1,423,621; July 25.
- Hinge. J. R. Moody. No. 1,423,812; July 25.
- Hinge and stop for desk lids, Combined. C. A. Brown. No. 1,423,513; July 25.
- Hinge check. G. Vuille. No. 1,423,784; July 25.
- Hoisting apparatus. C. E. Smith. No. 1,423,971; July 25.
- Hoist, Mechanical. F. E. Ackerman. No. 1,423,638; July 25.
- Hoists, Limit switch for electric-driven. R. E. Rice. No. 1,423,624; July 25.
- Hook. *See*—
Cant hook.
- Hose, Flexible metal. E. Witzennmann. No. 1,424,057; July 25.
- Husker. G. W. Zeier. No. 1,424,060; July 25.
- Husking mitten. M. Santter. No. 1,423,543; July 25.
- Hydrocarbon containers, Attachment for. J. Bingman. No. 1,424,068; July 25.
- Hydrometer. J. O. Luthy. No. 1,424,108; July 25.
- Ice conveyer. L. F. Pixley. No. 1,423,732; July 25.
- Identification and coding system. J. F. Gelnow. No. 1,423,763; July 25.
- Indicator. *See*—
Automobile direction indi- Direction indicator.
cator.
- Internal-combustion and hot-air engine. A. Bagnulo. No. 1,423,705; July 25.
- Internal-combustion engine. N. Isachson. No. 1,423,718; July 25.
- Internal-combustion engine. A. E. Nicholls. No. 1,423,677; July 25.
- Internal-combustion engine. F. L. H. Pfeil. No. 1,423,680; July 25.
- Internal-combustion engine, Two-cycle. A. G. L. and H. C. W. Neighbour. No. 1,423,578; July 25.
- Jack. *See*—
Double-gear jack. Power jack.
- Joint. *See*—
Universal joint.
- Journal lubricator. J. J. Hennessy. Nos. 1,423,850-1; July 25.
- Key case. W. R. Buxton. No. 1,423,909; July 25.
- Key holder. W. G. Staples. No. 1,424,121; July 25.
- Knickers. P. Leiken. No. 1,423,668; July 25.
- Knitting machines, Automatic tension-controlling means for. J. Lawson. No. 1,424,025; July 25.
- Ladder construction, Rope. R. D. Nileon. No. 1,424,115; July 25.
- Ladder platform and roof jack. C. J. and U. J. Mohr. No. 1,423,725; July 25.
- Lamp and similar article, Tipless incandescent. L. E. Mitchell and A. J. White. No. 1,423,956; July 25.
- Lamp gauge. R. Beman. No. 1,424,067; July 25.
- Lantern, Portable electric. A. D. Cardwell. No. 1,423,911; July 25.
- Last. J. C. Schelter. No. 1,423,740; July 25.
- Latex, Window. J. Szalay. No. 1,424,048; July 25.
- Let-off mechanism, Friction band for. C. H. Slinger. No. 1,423,780; July 25.
- Letter sheet. H. B. Campbell. No. 1,423,910; July 25.
- Light. *See*—
Curtain-window light. Automobile tail light.
- Lime-sulphur composition, Making dry soluble. E. H. French. No. 1,423,605; July 25.
- Line holder. H. Monahan. No. 1,423,868; July 25.
- Lingerie clasp. H. E. Johnson. No. 1,424,103; July 25.
- Liquids, Foam covering for preventing the evaporation of stored. J. M. Jennings. Nos. 1,423,720-1; July 25.
- Liquids, Stable foam for preventing the evaporation of stored. J. M. Jennings. No. 1,423,719; July 25.
- Loader device. L. D. Potter and T. C. Nolan. No. 1,423,878; July 25.
- Loading and unloading apparatus. C. B. Hastings. No. 1,423,765; July 25.
- Lock. *See*—
Automobile lock. Door lock.
Car-door lock. Meter lock.
Chain lock. Window lock.
- Lock. A. J. Fallon. No. 1,423,656; July 25.
- Lock. B. Morgenthau. No. 1,424,136; July 25.
- Lock. E. B. Stone. No. 1,424,046; July 25.
- Lock. A. Boge. No. 1,423,553; July 25.
- Lock and alarm, Combined. A. S. Cummings. No. 1,423,554; July 25.
- Locomotive-engineers' seat. O. Johnson. No. 1,423,855; July 25.
- Locomotives, Steam drifter mechanism for. F. B. Searle. No. 1,423,688; July 25.
- Locomotives, Tool for facilitating the adjustment of the driving shoes of. C. Guggenbuehler. No. 1,423,795; July 25.

- Loom, E. G. Loomis. No. 1,423,619; July 25.
 Looms, Bobbin stripper for automatic. J. T. Malloy. No. 1,423,670; July 25.
 Looms, Warp take up and tensioning mechanism for. S. K. Oliver. No. 1,423,729; July 25.
 Lubricator. *See—*
 Journal lubricator.
 Magneto oscillator. H. O. Putt. Nos. 1,423,734-5; July 25.
 Manifolding sheet. F. R. McClusky. No. 1,423,808; July 25.
 Manure loader. R. J. Newcomb. No. 1,423,676; July 25.
 Marker, Illuminated. E. H. Bausman. No. 1,423,641; July 25.
 Marking machine. E. T. Benson. No. 1,423,903; July 25.
 Mattress. F. Maussner. No. 1,423,954; July 25.
 Mechanical movement. J. C. Stone. No. 1,423,973; July 25.
 Medicinal apparatus. A. F. W. Macmanus. No. 1,424,111; July 25.
 Meter. *See—*
 Motor meter.
 Meter. H. Blum. No. 1,423,597; July 25.
 Meter lock, Motor-. L. L. Winters. No. 1,423,822; July 25.
 Methylene bodies, Producing active. C. B. Carter and A. E. Cox. No. 1,423,753; July 25.
 Milk product, Producing a condensed-. H. S. Mellott. No. 1,423,810; July 25.
 Milk, worts, and the like, Heat-exchange device for treating. M. Grubenmann. No. 1,423,794; July 25.
 Milling machine, Rigid. O. Hoppe. No. 1,423,563; July 25.
 Mining machine. E. C. Morgan. Nos. 1,424,113-14; July 25.
 Mixer. *See—*
 Water mixer.
 Mixing and conveying apparatus. C. W. Hodgson. No. 1,423,853; July 25.
 Motor. *See—*
 Current motor.
 Motor-controlling mechanism, Servo-. H. Zoelly and A. Gagg. No. 1,423,786; July 25.
 Motor meter, Electrically-lighted. C. H. Craft. No. 1,423,755; July 25.
 Mower, Lawn. P. A. Campbell. No. 1,423,999; July 25.
 Napkin-dispensing device. C. R. Vinson. No. 1,423,701; July 25.
 Nonskid chain. M. R. Johnson. No. 1,423,564; July 25.
 Nuts, bolts, and the like, Locking means for. H. Batchelor. No. 1,423,746; July 25.
 Odometer. Hub. C. Carson. No. 1,424,000; July 25.
 Oil burner. J. O. Decuir. No. 1,423,650; July 25.
 Oil, Desulphurizing. J. C. Clancy. No. 1,423,719; July 25.
 Oil, Desulphurizing. J. C. Clancy. No. 1,423,712; July 25.
 Oil, Transmission and motor. W. K. Boileau. No. 1,423,512; July 25.
 Ophthalmic mounting. F. A. Stevens. (Reissue.) No. 1,425; July 25.
 Ordnance. A. T. Dawson and J. Horne. No. 1,423,757; July 25.
 Ore-separating device. W. S. Brown. No. 1,423,751; July 25.
 Ozone generator. H. B. Hartman. No. 1,423,658; July 25.
 Padlock, Permutation. F. A. Durbin. No. 1,423,840; July 25.
 Pails, Machine for applying ears to. W. Spain. No. 1,423,693; July 25.
 Paper-conveying mechanism. J. D. McCracken. No. 1,424,952; July 25.
 Paper fastener. B. H. Freedman. No. 1,423,520; July 25.
 Paper-feeding mechanism. D. Noble. No. 1,424,116; July 25.
 Paper-stock regulator. L. B. Decker. No. 1,423,555; July 25.
 Pedestal. J. Lurtz. No. 1,423,951; July 25.
 Pencil. W. P. De Witt and D. J. La France. No. 1,423,603; July 25.
 Pencil attachment. C. E. Hansen. No. 1,424,096; July 25.
 Perambulator and push chair, Convertible. W. E. Carter. No. 1,423,912; July 25.
 Perforating machine, Sheet-. H. K. Sandell. No. 1,423,738; July 25.
 Phonograph-record cabinet. A. Wiehl. No. 1,424,054; July 25.
 Phonographs, Record wiper for. C. Landgraf and J. Hernacki. No. 1,424,023; July 25.
 Phonographs, Tone modifier for. F. W. Cooley. No. 1,423,832; July 25.
 Photographic materials, High-temperature development of. A. J. Agnew and F. F. Renwick. No. 1,424,062; July 25.
 Photographic-view finder. P. J. and W. O. Marks. No. 1,423,809; July 25.
 Picture machines, Automatic stop for moving-. J. B. Kuhn. No. 1,423,948; July 25.
 Pictures and the like, Transmitting. H. K. Sandell. No. 1,423,737; July 25.
 Pier, Ocean. A. C. Rush. No. 1,423,884; July 25.
 Pilot-light burner. J. Brombacher. No. 1,423,750; July 25.
 Pipe. *See—*
 Tobacco pipe.
 Pipe clamps and the like, Divided ring for. J. Clark. No. 1,423,754; July 25.
 Pipe wrench. P. G. Green. No. 1,423,793; July 25.
 Piston. J. A. Cole and L. J. Shorter. No. 1,421,002; July 25.
 Piston. H. Kistner. Nos. 1,423,615-6; July 25.
 Piston ring. T. B. Jones. No. 1,423,943; July 25.
 Plant protector. N. H. Hassel. No. 1,423,659; July 25.
 Plaster-board support. M. H. Jester. No. 1,423,939; July 25.
 Plaster support for walls. S. J. Potter. No. 1,423,879; July 25.
 Plastering of walls, Appliance for throwing mortar for the. T. Moser. No. 1,423,536; July 25.
 Platforms, Level indicator for. G. W. and C. B. King, B. Jacoby, H. E. Roush, and G. Holmes. No. 1,423,529; July 25.
 Pocketbook protector. M. J. Palmer. No. 1,423,539; July 25.
 Poke, Animal. P. Barney. No. 1,423,706; July 25.
 Powder puff. M. W. and A. E. Willson. No. 1,423,745; July 25.
 Power cable-reeling mechanism for self-propelled machines. J. S. Townsend. No. 1,423,889; July 25.
 Power jack, Electric. J. M. Crum. No. 1,423,834; July 25.
 Power plant. W. P. Butusov. No. 1,423,514; July 25.
 Press. *See—*
 Printing press.
 Press. W. Klocke. No. 1,423,617; July 25.
 Press. W. Klocke. No. 1,423,769; July 25.
 Presses, Auxiliary sheet gauge for platen. A. Danziger. No. 1,423,835; July 25.
 Pressure draft gauge. W. Kemp. No. 1,423,565; July 25.
 Price-tag holder. L. E. Ericson. No. 1,423,655; July 25.
 Printing and embossing, Die press for. F. W. Wood. No. 1,423,589; July 25.
 Printing press. E. J. Gowdy. No. 1,423,792; July 25.
 Pump. E. C. Cummings. No. 1,424,004; July 25.
 Pump. K. Herman. No. 1,423,852; July 25.
 Pump. W. S. Holdaway. No. 1,423,768; July 25.
 Pump. R. F. Hopkins and O. F. Devold. No. 1,423,935; July 25.
 Pump, Air. W. A. Swan. No. 1,424,123; July 25.
 Pump mechanism, Fluid-. F. C. Guerlich. No. 1,423,559; July 25.
 Pump, Oil-well. J. J. Larkin and R. L. Gordon. No. 1,423,860; July 25.
 Pump, Tire-operated multiple air. D. F. Groat. No. 1,423,607; July 25.
 Punch and die set. S. Diamant. No. 1,423,917; July 25.
 Punch, Rotary. J. Q. Snerman. No. 1,423,690; July 25.
 Radioelectron oscillator. C. R. Fountain. No. 1,424,091; July 25.
 Rail chair. C. Malitch. No. 1,423,534; July 25.
 Railings and the like, Fitting for. A. Falk. No. 1,423,927; July 25.
 Railway tie and securing device. S. Wallwork. No. 1,423,702; July 25.
 Railway-traffic-controlling systems. L. V. Lewis. No. 1,423,862; July 25.
 Railway train-order semaphores, Signal device for. H. A. Selin. No. 1,423,689; July 25.
 Range-finding and the like instrument. H. D. Taylor. No. 1,424,125; July 25.
 Ratchet crank. G. E. Sprague. No. 1,424,045; July 25.
 Recorder. *See—*
 Time recorder.
 Reel. *See—*
 Tape reel.
 Refrigerator. C. H. Leonard. No. 1,423,532; July 25.
 Register. *See—*
 Account register.
 Regulator. *See—*
 Burner regulator. Paper-stock regulator.
 Frequency regulator.
 Remittance reminder. H. M. Stewart. No. 1,423,886; July 25.
 Reproducer. C. J. del'Marmol. No. 1,424,087; July 25.
 Resilient wheel. C. Johnson. No. 1,424,101; July 25.
 Resin, Polyglycerol. L. Weisberg and R. S. Potter. No. 1,424,137; July 25.
 Retorts and other refractory shapes, Making of zinc. W. F. Rossman. No. 1,424,120; July 25.
 Retorts, Water seal for gas. A. W. Warner. No. 1,423,975; July 25.
 Rice-preservation process. S. I. Christensen. No. 1,423,830; July 25.
 Rim, Collapsible. W. E. Miller. No. 1,423,811; July 25.
 Rim fastener. W. Broadway and T. C. Pledger. No. 1,424,078; July 25.
 Rim tool. P. R. Peterson. No. 1,423,875; July 25.
 Ring. *See—*
 Piston ring.
 Ring gauge. M. L. Clopton. No. 1,424,082; July 25.
 Road, Highway. W. E. Williams. No. 1,423,893; July 25.
 Road rollers, Derrick attachment for. J. Mascetti. No. 1,423,724; July 25.
 Rod. *See—*
 Connecting rod.
 Roller. *See—*
 Feed roller.
 Rolling mills, Delivery mechanism for. A. E. Jupp and R. C. Crooks. No. 1,423,856; July 25.
 Routing tool. J. N. Baker. No. 1,423,511; July 25.

- Rubber and filamentary material and products obtained therefrom, Production of fabrications of. E. Hopkinson. No. 1,424,020; July 25.
- Rubber-containing latex, Product obtained from. E. Hopkinson. No. 1,423,526; July 25.
- Rubber, containing latex, Treating. E. Hopkinson. No. 1,423,525; July 25.
- Saltcellar. J. E. Scott. No. 1,424,040; July 25.
- Sampling apparatus. R. K. Warner. No. 1,423,890; July 25.
- Sand feeder. K. S. Howard. No. 1,423,854; July 25.
- Saw. O. D. Eshelman and W. F. Boast. No. 1,423,843; July 25.
- Sawing machine. F. J. Scott. No. 1,424,039; July 25.
- Scaffold carrier. A. E. Camp. No. 1,423,998; July 25.
- Scale beams, Automatic latch for. J. J. Magrady. No. 1,423,772; July 25.
- Scale, Weighing. H. O. Hem. No. 1,423,660; July 25.
- Scales, Weight indicator for. H. C. Schaper. No. 1,423,885; July 25.
- Scissors, Stitch clipper for. C. Francisco. No. 1,423,791; July 25.
- Screw holder. G. W. Brooks. No. 1,423,991; July 25.
- Screw driver. J. E. McCafferty. No. 1,423,722; July 25.
- Seal. H. R. Rogers. No. 1,423,881; July 25.
- Seam-setting tool. H. F. G. Schuske. No. 1,423,581; July 25.
- Seat: See—
Locomotive-engineer's seat. Valve seat.
- Seed and ground tester. J. B. White. No. 1,423,979; July 25.
- Sewers, Receiver and stench trap for. J. Etchebéhère. No. 1,423,925; July 25.
- Shale, Distilling. E. E. Hedges. No. 1,423,716; July 25.
- Sheet metal, Manufacture of blanks of. F. Drury. No. 1,424,005; July 25.
- Shelving and other articles, Locking mechanism for. A. H. Lévène. No. 1,423,861; July 25.
- Shim. J. H. Akins. No. 1,424,063; July 25.
- Shipping container. Collapsible. N. K. Hunt. No. 1,424,099; July 25.
- Shock absorber. O. F. Blyburg. No. 1,423,904; July 25.
- Shock absorber. J. Konigsberg. No. 1,423,946; July 25.
- Shock absorber. E. S. Lehr. No. 1,423,667; July 25.
- Shoe-buttoning device. J. Szigethy. No. 1,423,782; July 25.
- Shoe laces, Machine for making. G. H. Armitage. No. 1,423,984; July 25.
- Shoehorn. H. E. Peck. No. 1,424,030; July 25.
- Signal: See—
Automobile theft signal. Danger signal.
- Signaling system. E. H. Armstrong. No. 1,424,065; July 25.
- Skylight lift. A. G. Pitz and O. X. Saur. No. 1,423,817; July 25.
- Sled. A. C. Gilbert. No. 1,424,011; July 25.
- Small arm comprising a striker sliding in a breech bolt. J. Declaye. No. 1,423,836; July 25.
- Soap-holding brush. F. S. Brown. No. 1,423,992; July 25.
- Sound box. H. Berman. No. 1,423,707; July 25.
- Spade. E. W. Mundt. No. 1,423,775; July 25.
- Spike. W. W. Yehling. No. 1,424,058; July 25.
- Spinning, doubling, and twisting machine. R. E. Hines. No. 1,423,801; July 25.
- Spring wheel. W. Piernikowski and S. Grudzinski. No. 1,423,733; July 25.
- Steam boiler, Oil-fired. B. Greenfield. No. 1,423,764; July 25.
- Steel, Producing silicon-manganese-chrome. G. Gustafson, A. A. Jungmarker, and K. A. Caspersson. No. 1,423,847; July 25.
- Steering gears, Antilock device for. W. F. Staggers. No. 1,423,820; July 25.
- Stem-making machine. L. E. Mitchell and A. J. White. No. 1,423,957; July 25.
- Stitching machines, Delivery mechanism for signature. M. Christensen. No. 1,423,647; July 25.
- Stoker, Locomotive. M. M. Lower. No. 1,423,533; July 25.
- Strainer, Sink. P. Lacoste. No. 1,424,022; July 25.
- Stranding machine. M. Morrison. No. 1,423,776; July 25.
- Substances by distillation with a solvent. Purification of. G. C. Bailey, C. W. Fischer, and J. F. W. Schulze. No. 1,424,138; July 25.
- Suction cleaner. W. V. Orr. (Reissue.) No. 15,423; July 25.
- Suction duster. R. D. Buitrago. No. 1,423,993; July 25.
- Sulphur compounds from mineral oils and the like, Obtaining. J. C. Clancy. No. 1,423,711; July 25.
- Supercalender, Multiple-roll. C. Schürmann. No. 1,423,969; July 25.
- Support and cutter. H. M. Thomas and M. Fogel. No. 1,424,050; July 25.
- Surf-breaking apparatus, Automatic. H. O. Barlow. No. 1,423,640; July 25.
- Swimming harness. H. L. Smith. No. 1,423,633; July 25.
- Swimming race. R. Sato and C. Matsui. No. 1,424,038; July 25.
- Switch: See—
Connector switch. Track switch.
- Switch construction. S. Wallwork. No. 1,423,703; July 25.
- Swivel members, Manufacture of. S. W. Parsons. No. 1,424,029; July 29.
- Tag, Shipping. A. E. Fish. No. 1,423,557; July 25.
- Tail light and number plate. R. S. Croshaw; No. 1,423,648; July 25.
- Talking-machine record, Laminated. V. H. Emerson. No. 1,423,517; July 25.
- Tank gauge. W. J. Schaedler. No. 1,423,544; July 25.
- Tape reel. C. F. Dieckmann. No. 1,423,516; July 25.
- Tapes, Latch release for. C. W. Crogan. No. 1,424,085; July 25.
- Tearing tester. A. Elmendorf. Nos. 1,423,841-2; July 25.
- Teeth, Mold guide for artificial. C. J. Duffy. No. 1,423,921; July 25.
- Telephone switchboard apparatus. B. Freile. No. 1,423,930; July 25.
- Telephone system, Automatic. G. A. Yanochowski. Nos. 1,423,898-9; July 25.
- Tennis racket. G. Agutter. No. 1,423,900; July 25.
- Tension device and yarn cleaner. G. N. Taylor. No. 1,424,124; July 25.
- Testing apparatus for indicating leaks. G. Bauer and F. Kramer. No. 1,423,902; July 25.
- Thrashing machine. G. E. Richmond. No. 1,424,119; July 25.
- Time recorder. G. Krum. No. 1,423,805; July 25.
- Time tables, Device for holding engineers'. V. W. Duff. No. 1,423,920; July 25.
- Tire. J. J. P. Walsh. No. 1,423,549; July 25.
- Tire bead, Method of and apparatus for forming a. W. G. Fording. No. 1,423,929; July 25.
- Tire carrier. H. B. Tuttle. No. 1,423,699; July 25.
- Tire casing, Pneumatic. N. W. McLeod. No. 1,423,771; July 25.
- Tire-making machine. F. C. Morton. No. 1,423,870; July 25.
- Tire, Nonpuncturable. G. A. Weber. Nos. 1,423,976-7; July 25.
- Tire protector. G. W. Somerville. No. 1,423,692; July 25.
- Tire rim, Collapsible. J. H. Bowles. No. 1,424,073; July 25.
- Tire rim, Demountable. J. H. Jones. No. 1,423,942; July 25.
- Tire rim, Sectional. H. H. Hively. No. 1,424,019; July 25.
- Tire tread, Pneumatic. B. Darrow. No. 1,424,131; July 25.
- Tires, Inner tube for pneumatic. C. B. Orr. No. 1,424,135; July 25.
- Tires, Nonskid attachment for vehicle. J. N. Burris. (Reissue.) No. 15,418; July 25.
- Tires of the solid type, Building. P. W. Litchfield. No. 1,424,134; July 25.
- Tires, Resilient core for motor. G. A. H. Robbins and S. F. E. Einsiedel. No. 1,423,580; July 25.
- Tires, Sectional inner strip for automobile. W. Berman. No. 1,423,748; July 25.
- Tires, Valve device for pneumatic. J. N. Newsom and H. E. Harder. No. 1,423,873; July 25.
- Tobacco pipe. J. Mesaros. No. 1,423,620; July 25.
- Tobacco pipes, Attachment for. J. C. Monmonier. No. 1,423,869; July 25.
- Tool. B. W. Christian. No. 1,424,001; July 25.
- Tool holders, Pin retainer for. L. C. Bayles. No. 1,423,595; July 25.
- Tooth and crowns, Tube. A. H. Sibley and G. L. Van Allen. No. 1,423,628; July 25.
- Toy. G. A. King. No. 1,423,566; July 25.
- Toy. J. and H. Shapiro. No. 1,423,819; July 25.
- Toy arrow. A. D. Adriance. No. 1,423,551; July 25.
- Toy, Figure. J. C. Lackey. No. 1,423,618; July 25.
- Toy operated by gramophones, Mechanical. H. J. Hastings and C. S. Smith. No. 1,424,015; July 25.
- Track switch. J. Paige. No. 1,423,965; July 25.
- Traction lug. W. Levy. No. 1,423,568; July 25.
- Tractor. J. M. Denning. (Reissue.) No. 15,420; July 25.
- Tractor. F. C. Olin. No. 1,423,962; July 25.
- Tractor. G. J. Ziegler. No. 1,424,128; July 25.
- Tractor and plowing attachment therefor. P. A. Reinhold. No. 1,423,736; July 25.
- Tractor coupling. A. Wilde. No. 1,423,785; July 25.
- Tractor driving and mechanism therefor. C. N. and F. C. Beal. No. 1,423,642; July 25.
- Tractor-driving mechanism. J. C. F. Dick. No. 1,423,758; July 25.
- Tractor wheel. H. G. Howard. No. 1,424,098; July 25.
- Trailers, Steering gear for. A. Arbetblatt. No. 1,424,129; July 25.
- Transmission mechanism, Differential. G. C. Jett. No. 1,423,940; July 25.
- Trap: See—
Animal trap.
- Traveling block. B. Boykin, jr. No. 1,424,075; July 25.
- Trimming device. F. H. Grove. No. 1,424,012; July 25.
- Trolley-aligning harp. S. S. Matthes. No. 1,423,575; July 25.
- Trough. G. G. Bayne. No. 1,423,552; July 25.
- Trousers support. A. Rose. No. 1,423,684; July 25.
- Truck for locomotives, Trailer. W. E. Woodward. No. 1,423,895; July 25.
- Truck loading and unloading mechanism. R. F. Stewart. No. 1,423,887; July 25.
- Truck, Power. J. Kramer, F. O. Kuehne, jr., and W. H. Kopplin. No. 1,423,947; July 25.
- Tube expander and beading tool, Combined. J. J. Smith. No. 1,423,545; July 25.

ALPHABETICAL LIST OF INVENTIONS.

- Tubes and similar articles. Mold for pneumatic. W. L. Fairchild. No. 1,423,761; July 25.
 Tubes. Vulcanizing pneumatic. W. L. Fairchild. No. 1,423,760; July 25.
 Tubing bleeder. G. C. Irons and A. Larson. No. 1,423,937; July 25.
 Typewriter. J. A. Wherry. (Reissue.) No. 15,426; July 25.
 Typewriter attachment. J. M. Schultze. No. 1,423,687; July 25.
 Universal joint. W. C. Morton. No. 1,423,577; July 25.
 Universal joint. H. N. Wayne. No. 1,424,051; July 25.
 Uppers over lasts. Machine for working. B. Jorgensen. No. 1,423,613; July 25.
 Urinal. G. Müller. No. 1,423,537; July 25.
 Urn, Coffee. H. J. Strohbach. No. 1,423,547; July 25.
 Utensil, Camp. H. H. Jewett. No. 1,423,612; July 25.
 Valve. N. Palmaffy. No. 1,423,966; July 25.
 Valve device. H. C. Brehmer. No. 1,423,988; July 25.
 Valve, Drain. S. Pavitchich. No. 1,423,679; July 25.
 Valve, Drifting. J. H. Hanlon. No. 1,423,797; July 25.
 Valve for air-brake pipes, Shut-off. A. L. Cole. No. 1,424,083; July 25.
 Valve-grinding machine, Multiple. R. M. Roof. No. 1,424,083; July 25.
 Valve, Poppet. C. Pfanstiehl. No. 1,423,876; July 25.
 Valve seat. R. W. Gunn and W. A. S. Thompson. No. 1,424,094; July 25.
 Valve-stem cap. E. D. Rockwell. No. 1,423,541; July 25.
 Valve, Throttle. W. F. Kasper. No. 1,423,858; July 25.
 Vaporizer, Kerosene. W. H. Hill. No. 1,424,142; July 25.
 Vegetable cutter. A. I. Mohnacs. No. 1,423,960; July 25.
 Vegetable peeler. T. H. Pickering. No. 1,424,032; July 25.
 Vegetable-stem remover and crusher. A. Ellis. No. 1,423,790; July 25.
 Vehicle brake. B. O. Frederick. No. 1,423,846; July 25.
 Vehicle fuel tanks, Number plate for motor-. N. W. Jacobs. No. 1,423,938; July 25.
 Vehicle, Motor. A. E. Osborn. No. 1,423,731; July 25.
 Vehicle washing machine. M. J. Fenelon. No. 1,423,844; July 25.
 Vehicle wheel. A. Mailhot. No. 1,423,574; July 25.
 Vehicle wheel. S. Munson. No. 1,423,674; July 25.
 Vehicle wheels, Making pressed-steel. D. H. Bellamore and T. I. S. Boak. No. 1,423,747; July 25.
 Vehicles, Driving mechanism for motor. C. E. Starr. (Reissue.) No. 15,424; July 25.
 Vehicles, Equalizing and steering gearing for motor. J. B. Ramer. No. 1,424,118; July 25.
 Vehicles, Identification fender for. L. P. Braddy. No. 1,423,905; July 25.
 Vehicles, Radiator for. E. R. Hewitt. No. 1,423,662; July 25.
 Vehicles, Spring guard for. L. H. B. Hand. No. 1,424,014; July 25.
 Vehicles, Steering-wheel lock for. H. L. Smith. No. 1,423,632; July 25.
 Vending apparatus. E. C. Boyce. No. 1,424,074; July 25.
 Vessel, Towing. T. S. Miller. No. 1,423,576; July 25.
 Vice. J. J. Moore. No. 1,423,774; July 25.
 Voltage-regulating system. G. Faccioli. No. 1,423,926; July 25.
 Wagon tongue. J. H. Anderson. No. 1,424,064; July 25.
 Wall board and plaster composition adapted thereto. J. A. Lockhart. No. 1,423,569; July 25.
 Washboiler attachment. J. T. Wood. No. 1,423,823; July 25.
 Washer. P. W. Fleischer. No. 1,424,008; July 25.
 Washing machine. A. Sorensen. No. 1,423,972; July 25.
 Washing machines, Driving mechanism for. C. C. Lamb. No. 1,423,531; July 25.
 Watch-chain fastener. J. Loman. No. 1,424,139; July 25.
 Water mixer. T. W. Powers. No. 1,423,880; July 25.
 Waterproofing device. G. A. Kampmann. No. 1,423,857; July 25.
 Water softener. C. B. Haines. No. 1,423,657; July 25.
 Water to boilers. Apparatus for controlling the flow of. J. A. Doble. No. 1,423,759; July 25.
 Welding, Electrical arc. J. Churchward. No. 1,423,914; July 25.
 Well-cleaning device. F. J. Rogers. No. 1,423,625; July 25.
 Wheel: See—
 Disk wheel. Spring wheel.
 Fan wheel. Tractor wheel.
 Resilient wheel. Vehicle wheel.
 Wheel. F. S. Stafford. No. 1,423,694; July 25.
 Wheel and making same. J. F. Dodge. No. 1,423,556; July 25.
 Wheel and resilient tire therefor, Vehicle. F. De Borggrave. No. 1,424,086; July 25.
 Wheels, Detachable tread for tractor. E. J. Farkas. No. 1,423,519; July 25.
 Window. J. Siegfried. No. 1,423,629; July 25.
 Window lock. W. M. Lowthorp. No. 1,424,107; July 25.
 Windows, Protecting device for show. M. A. Skall. No. 1,424,043; July 25.
 Woodworking and other machines, Feeding chain for. C. B. Foster and F. H. Clement. No. 1,424,090; July 25.
 Woven tubular fabric. W. E. Hill and C. V. Firth. No. 1,423,524; July 25.
 Wrench: See—
 Adjustable wrench. Pipe wrench.
 Wrench. F. W. Blackmar. No. 1,424,069; July 25.
 Wrench. G. D. Illig. No. 1,423,803; July 25.
 X-ray cabinet and machine. W. H. Thwaites. No. 1,423,635; July 25.
 X-ray-tube holder, Adjustable. E. L. Edwards. No. 1,423,924; July 25.
 Yarn clearer and tension device, Combined. J. O. McKean. No. 1,423,864; July 25.

ALPHABETICAL LIST OF DESIGNS.

- Ash tray. W. M. Chapman. No. 61,267; July 25.
 Doll, Stocking baby. J. O. Enoch. No. 61,268; July 25.
 Finger ring. D. Shiman. No. 61,280; July 25.
 Gas heater. C. V. Roberts and K. C. Farnsworth. No. 61,277; July 25.
 Knitted cape. J. Pelt. No. 61,276; July 25.
 Lighting fixtures, Husk for. J. W. Schulze. No. 61,279; July 25.
 Paper or similar article. F. Javal. No. 61,270; July 25.
 Paper, Safety. F. Meyer. No. 61,275; July 25.
 Ring or similar article. J. W. Mayer. No. 61,274; July 25.
 Textile fabric. G. Barci. No. 61,266; July 25.
 Textile fabric. E. Krupicka. No. 61,271; July 25.
 Textile fabric. G. Rowland. No. 61,278; July 25.
 Textile fabric. W. Strasser. Nos. 61,281-4; July 25.
 Textile fabric. V. Tardy. Nos. 61,285-6; July 25.
 Textile fabric, Wall paper, wrapping paper, or article of similar nature. E. Gaudioz. No. 61,269; July 25.
 Toy doll. C. B. Lockwood. No. 61,273; July 25.
 Valance. H. H. Lindner. No. 61,272; July 25.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

- Aeroplanes and parts thereof, Certain. Horace Keane Aeroplanes, Inc. No. 157,117; July 25.
- Airplanes. Curtiss Aeroplane and Motor Corporation. No. 157,038; July 25.
- Analgesic and medicine for neuralgia, headache, toothache, rheumatism, and grippe, General. Societe Civile des Hermitiers de P. Basset. No. 157,285; July 25.
- Antiskid chains for vehicle wheels. American Chain Company. No. 156,989; July 25.
- Aprons and dresses, Women's cotton. I. Ginsberg & Bros. No. 157,074; July 25.
- Aprons, Bungalow. Elias and Lowenstein Company. No. 157,051; July 25.
- Athletic underwear, Men's. M. J. Friedman. No. 157,072; July 25.
- Automobile luggage and tire carriers. Interlock Hardware Company. No. 157,112; July 25.
- Automobiles and motor trucks. Northway Motors Corporation. No. 157,161; July 25.
- Automobiles and their structural parts. Gray Motor Corporation. No. 157,083; July 25.
- Awl tools for shoemakers and leather workers, Combination. W. Pass. No. 157,278; July 25.
- Bathing suits. Oliver Knitting Company. No. 157,166; July 25.
- Bearings and bushings. Buckeye Brass and Manufacturing Company. No. 157,016; July 25.
- Belting, Leather. Grant Leather Corporation. No. 157,080; July 25.
- Belts, Automobile textile fan. Raydeo Belt Co. No. 157,184; July 25.
- Belts for men, women, and children. Hauser & Weil. No. 157,262; July 25.
- Beverage and sirups for making same. Theonett & Co. No. 157,217; July 25.
- Beverage sold as a soft drink and sirup for same, Carbonated. Orange-Smash Co. No. 157,276; July 25.
- Beverages and purified drinking water, Nonalcoholic. Electrozone Water Company. No. 157,049; July 25.
- Beverages sold as soft drinks and sirups for making the same. F. Hoffman & Sons, Inc. No. 157,285; July 25.
- Bicycles and parts thereof. Westfield Manufacturing Company. No. 157,244; July 25.
- Blankets. Beacon Manufacturing Company. No. 157,000; July 25.
- Blouses and waists, Women's. Sears, Roebuck & Co. No. 157,201; July 25.
- Boat lowering and hoisting gear, Mechanically-operated. George A. Vaughan & Co. No. 157,234; July 25.
- Boats. McIntyre Bros. No. 157,141; July 25.
- Boots and shoes. Rubberhide Company. No. 157,195; July 25.
- Boots and shoes. Tri-Plex Shoe Company. No. 157,225; July 25.
- Boots and shoes, Leather. Commonwealth Shoe and Leather Company. No. 157,030; July 25.
- Boots, shoes, and slippers. Abbott Shoe Co. No. 156,974; July 25.
- Boots, shoes, and slippers. Plant-Butler Company. No. 157,176; July 25.
- Boots, shoes, and slippers. M. Samuels & Co. No. 157,280; July 25.
- Boots, shoes, leggings, spats, rubbers, gaiters, etc. H. Gordon. No. 157,078; July 25.
- Boots, shoes, slippers. J. J. Grover's Sons Company. No. 157,089; July 25.
- Boots, shoes, slippers. Thomas G. Plant Company. Nos. 157,177-8; July 25.
- Bottle stoppers and lids. Thomas De La Rue and Company. No. 157,045; July 25.
- Bottles, Glass milk. W. L. Johnson. No. 157,114; July 25.
- Brake bands, Lubricant for. Simons Manufacturing Company. No. 157,283; July 25.
- Brake lining. Raybestos Company. No. 157,183; July 25.
- Brake linings. A. J. Conard. No. 157,032; July 25.
- Brushes, Toilet. Geo. R. Gibson Co. No. 157,073; July 25.
- Burial garments. Theo. Tiedemann & Sons. No. 157,222; July 25.
- Burners for lighting, heating, and cooking purposes. Elektrizitätswerk Lonza. No. 157,050; July 25.
- Camping or sleeping bags, Woolen and canvas. F. C. Huyck & Sons. Nos. 157,107-8; July 25.
- Candies. Sloux Candy Co. No. 157,284; July 25.
- Candies. A. G. Williams Home Made Candy Co. No. 157,247; July 25.
- Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 157,146; July 25.
- Candies and ice cream. Pangburn Company. No. 157,170; July 25.
- Candy. De Klyn Candy Co. No. 157,042; July 25.
- Candy. Gramercy Chocolate Company. No. 157,079; July 25.
- Candy, Chocolate-covered. Buhr & Smith. No. 157,017; July 25.
- Canned fruits, vegetables, and fish, vinegar. J. C. Perry & Company. No. 157,172; July 25.
- Caps and hats, Men's and boys'. Ambassador Cap Co. No. 156,983; July 25.
- Cards, Packaged set of changeable-feature folding. Irokese Trading Corporation. No. 157,268; July 25.
- Cars and parts thereof, Certain. Koppel Industrial Car & Equipment Company. No. 157,122; July 25.
- Castings and forgings, Metal. Dunbar Drop Forge Company. No. 157,047; July 25.
- Chalks, Billiard. National Billiard Chalk Co. No. 157,274; July 25.
- Chinaware, earthenware, porcelain. Ovington Bros. Company. No. 157,169; July 25.
- Chocolate coatings, Cakes of sweet-. Walter Baker & Company. No. 156,994; July 25.
- Cigars. Walker-Matteson Company. No. 157,239; July 25.
- Cleaning machines, Vacuum. Hochschild, Kohn and Co. No. 157,264; July 25.
- Cloth in the piece of wool, cotton, or mixtures of same. Howard and Jones, Inc. No. 157,104; July 25.
- Cloths of wool. William Hollins & Company. No. 157,102; July 25.
- Clothes, Work. Higginbotham-Bailey-Logan Company. No. 157,097; July 25.
- Clothing and protective apparel, Certain articles of. J. Weimann. No. 157,242; July 25.
- Clothing, Certain articles of. J. P. Carey & Co. No. 157,021; July 25.
- Clothing, Certain articles of. Derwent Mills, Limited. No. 157,046; July 25.
- Clothing, Certain articles of. M. Levin. No. 157,127; July 25.
- Clothing, Certain articles of. Charles Munter. No. 157,157; July 25.
- Coal and coke. Thermot Coal & Coke Co. No. 157,218; July 25.
- Coats, caps, hats, gloves, hosiery, etc. A. Cunningham, Limited. No. 157,037; July 25.
- Coats, vests, trousers, and overcoats. Coombes & Levi-son. No. 157,031; July 25.
- Coats, vests, trousers, skirts, hats, and caps, Leather. Jens Weimann. No. 157,241; July 25.
- Coats, waistcoats, trousers, and overcoats. David Adler & Sons Co. No. 156,976; July 25.
- Coffee. G. G. Cornwell & Son. No. 157,033; July 25.
- Coffee. Ridenour-Baker Grocery Company. No. 157,188; July 25.
- Coffee and tea. Hoffman-Hayman Coffee Co. No. 157,101; July 25.
- Coffee, tea, spices, vinegar, and flavoring extracts. David G. Evans Coffee Company. No. 157,055; July 25.
- Collars, cuffs, and shirts. American Collar Co. Inc. No. 157,251; July 25.
- Cologne water. F. Hoyt & Co. No. 157,266; July 25.
- Condiments and spices. Green Top Company. No. 157,085; July 25.
- Construction material, Certain. Philip Carey Manufacturing Co. No. 157,173; July 25.
- Cotton, linen, and half-silk piece goods. Aktiengesellschaft Clander. Nos. 156,977-80; July 25.
- Cotton, silk, linen goods and mixtures in the piece. Jacob Miller Sons & Co. No. 157,153; July 25.
- Cotton, thread, cotton yarn, Spool and sewing. American Thread Company. No. 156,987; July 25.
- Crayons, Dustless. American Crayon Company. No. 156,984; July 25.
- Culinary and kitchen utensils. Ernest Stevens Limited. No. 157,211; July 25.
- Curtain fixtures and brackets. Bay State Stamping Company. No. 157,253; July 25.
- Cutting tools for working wood and metal, Certain. J. Thompson. No. 157,219; July 25.
- Diapers and diaper material. Forney & Co. No. 157,065; July 25.
- Dolls. G. F. Berkander. No. 157,001; July 25.
- Dresses, Ladies'. Meyer Cloak & Dress Co. No. 157,150; July 25.
- Dresses, Silk. David H. Lowenthal & Co. No. 157,138; July 25.
- Dresses, skirts, and waists, Cotton. I. Ginsberg & Bros. No. 157,075; July 25.
- Dresses, Women's. Charles H. D. Robbins Co. No. 157,190; July 25.
- Electric-current detector. Am-O-Meter Company. No. 156,988; July 25.
- Engines, air compressors, and air compressing and receiving outfits. De La Vergne Machine Company. No. 157,044; July 25.
- Engines and oil-well tools and equipment, Gas. Union Tool Company. No. 157,229; July 25.

- Engines and parts thereof and certain accessories therefor. Knox Motors Company. No. 157,121; July 25.
- Engines, and parts thereof, internal-combustion. Pierce-Arrow Motor Car Company. No. 157,174; July 25.
- Excelsior, excelsior products. Excelsior Wrapper Company. No. 157,057; July 25.
- Films, Cinematograph. Societa Anonima Itala Film. No. 157,207; July 25.
- Finger-piece eyeglass mountings. F. A. Hardy & Company. No. 157,094; July 25.
- Fire fenders, furnace bars. Hadfields Limited. No. 157,091; July 25.
- Firecrackers. Hitt Fireworks Company. No. 157,100; July 25.
- Flour, Wheat. E. O. Challenger. No. 157,024; July 25.
- Frocks for little girls, Play. Tubstuff Company. No. 157,226; July 25.
- Fruit-jar rings. Walker-Matteson Company. No. 157,238; July 25.
- Games, Boxed sets of changeable-feature. Irokese Trading Corporation. No. 157,267; July 25.
- Garment hangers. J. Grimberg. No. 157,087; July 25.
- Garment to be worn both as a sleeping robe and lounging robe. Brownstein-Louis Co. No. 157,015; July 25.
- Garments, Children's. Kuh Brothers. No. 157,124; July 25.
- Garments, Men's outer. J. J. Fatt. No. 157,061; July 25.
- Gas mantles. Lindsay Light Company. Nos. 157,130-31; July 25.
- Ginger ale and ginger-ale extracts. James Vernor Company. No. 157,293; July 25.
- Glass, Cut. G. L. Borden. No. 157,010; July 25.
- Gloves. Goodhand, Smith & John, Inc. No. 157,077; July 25.
- Gloves and mittens, Cotton. Seneca Glove & Mitten Manufacturing Company. No. 157,204; July 25.
- Gloves, Cloth. Grewen Fabric Company. No. 157,086; July 25.
- Gloves, Fabric. Mills & Gibb Corporation. No. 157,152; July 25.
- Gloves, Skin. Reynier & Cie. No. 157,186; July 25.
- Grapes, Fresh. Fairview Grape Growers Ass'n. No. 157,060; July 25.
- Grates and stokers. McClave-Brooks Co. No. 157,139; July 25.
- Gum, Chewing. India Company. No. 157,111; July 25.
- Guns, Hunting. V. Sarasqueta. No. 157,281; July 25.
- Hair nets. Thurm, Browne & Cohen, Inc. No. 157,221; July 25.
- Hats and caps for men and boys. Freed & Company. No. 157,069; July 25.
- Hats and caps, Men's and children's. D. E. Loewe & Co. No. 157,137; July 25.
- Hats for men. Bonar-Phelps Company. No. 157,255; July 25.
- Hats, Ladies'. Quaker Hat Company. No. 157,180; July 25.
- Hats, Men's. Bonar-Phelps Company. Nos. 157,006-8; July 25.
- Hats, Men's. Bonar-Phelps Company. No. 157,009; July 25.
- Hats, Men's. Denzer, Goodhart & Co. No. 157,045; July 25.
- Hats, Women's. Saks & Company. No. 157,198; July 25.
- Hats, Women's and children's. W. H. Littlefield and Company. Nos. 157,132-5; July 25.
- Heels for footwear, Resilient. A. L. Runyan. No. 157,196; July 25.
- Heels for shoes, Combination leather and rubber. J. K. Krieg Company. No. 157,271; July 25.
- Heels, Wood. Gray-Hathaway Wood Heel Company. No. 157,082; July 25.
- Hose, Boys' ribbed. J. P. Voorhees. No. 157,237; July 25.
- Hosiery. R. Berman. No. 157,002; July 25.
- Hosiery. Burson Knitting Company. No. 157,018; July 25.
- Hosiery. A. K. Clarke. No. 157,270; July 25.
- Hosiery. S. Kaplan. No. 157,116; July 25.
- Hosiery. Keesey Hosiery Company. No. 157,119; July 25.
- Hosiery. Wm. T. McVaugh Company. No. 157,142; July 25.
- Hosiery. Oliver Knitting Company. No. 157,167; July 25.
- Hosiery. Sterling Hosiery Co. No. 157,210; July 25.
- Hosiery. United Mills Company. No. 157,230; July 25.
- Hosiery. Wayne Knitting Mills. No. 157,295; July 25.
- Ice-making and refrigerating machinery. Frick Company. No. 157,070; July 25.
- Jacks and lifting-jack bases, Lifting. O. P. Schriver Company. No. 157,200; July 25.
- Kimonos, house dresses, aprons, bath robes. Caro & Company. No. 157,022; July 25.
- Knit underwear. Superior Knitting Company. No. 157,214; July 25.
- Knit underwear for women and children. Blue Star Knitting Co. No. 157,005; July 25.
- Knitted or textile underwear, sweaters, neckties, etc., Men's, women's, and children's. Myers Dry Goods Co. No. 157,153; July 25.
- Knitted underwear, bathing suits, hosiery, etc., Women's and children's. A. M. Webb. No. 157,240; July 25.
- Knitted underwear for women. Sylva Knitting Company. No. 157,215; July 25.
- Knives, forks, and spoons, etc., Table. Ovington Bros. Company. No. 157,168; July 25.
- Lamps for motor vehicles, Electric signal. Standard Auto Parts Co. of America. No. 157,288; July 25.
- Lathes, Turning. Dalton Manufacturing Corporation. No. 157,040; July 25.
- Lens. W. E. Moulton. No. 157,155; July 25.
- Lenses, Headlight. R. T. Wing. No. 157,249; July 25.
- Lockers for the storage of valuables, safes, etc., Vault. Barshal Company. No. 156,997; July 25.
- Locks. Wilson Bohannon, Inc. No. 157,254; July 25.
- Locks, latches, and padlocks. E. T. Fraim Lock Company. Nos. 157,066-7; July 25.
- Machine tools. Steel Products Engineering Company. No. 157,209; July 25.
- Machinery, Certain. Treadwell Engineering Company. No. 157,292; July 25.
- Mayonnaise. B. Alperin. No. 156,982; July 25.
- Meats, sausages, and frankfurters, lard, salad oil, etc., Smoked. Virden Packing Company. No. 157,236; July 25.
- Men's wear and haberdashery, shirts, pyjamas, neckties, scarfs, etc. Mill-Rich Service. No. 157,151; July 25.
- Metal-working small tools. Cleveland Twist Drill Company. No. 157,027; July 25.
- Milk, Condensed and evaporated. Burt Olney Canning Company. No. 157,019; July 25.
- Millinery and ladies' ready-to-wear garments. M. Robins. No. 157,191; July 25.
- Moccasins. G. H. Bass & Company. No. 156,998; July 25.
- Mops, Massasoit Manufacturing Company. No. 157,147; July 25.
- Motor cycles, side cars and trailers. Sinclair Millitor Corporation. No. 157,206; July 25.
- Oil gauges. Sterling Parts Mfg. Co. No. 157,289; July 25.
- Oil, Olive. Bay Bee Oil Co. No. 156,999; July 25.
- Oil, Olive. Oleicola Tarragona, S. A. No. 157,165; July 25.
- Overalls, coveralls, work shirts, etc. United States Overall Manufacturing Company. No. 157,231; July 25.
- Packings, gaskets, and washers of leather. Hess and Hopkins Leather Company. No. 157,263; July 25.
- Paper luncheon sets. Sanitary Products Corporation of America. No. 157,199; July 25.
- Paper tablets, papeteries, envelopes, and boxes of sheet paper. Charles Leich & Co. No. 157,126; July 25.
- Papers and mailing envelopes, Writing. Whiting Paper Company. No. 157,245; July 25.
- Pencils, Lead. A. J. Coleman. No. 157,029; July 25.
- Photographic paper. Defender Photo Supply Company. No. 157,041; July 25.
- Piece goods, Certain. Lewis Manufacturing Co. No. 157,128; July 25.
- Pies, puddings, custards, and cake filling, Mixture for making. Adam Int-Hout. No. 156,975; July 25.
- Pipe vises and stocks and dies for pipe threading. Armstrong Manufacturing Co. No. 156,990; July 25.
- Piston rings. Perfection Piston Ring Company. No. 157,171; July 25.
- Plumbers' tables and vise supports. G. L. Hargey. No. 157,095; July 25.
- Powder, Washing. R. L. Wilson. No. 157,297; July 25.
- Preparation for the relief of dyspepsia, indigestion, gas, etc. W. M. Davis. No. 157,257; July 25.
- Preparation for the treatment of whooping cough, croup, hoarseness, and bronchitis, Liquid. W. J. Galloway. No. 157,258; July 25.
- Preparation for treating rheumatism and purifying the blood. L. G. Jolley & Son. No. 157,269; July 25.
- Preparation used in the treatment of indigestion. Mary Hatchet & Jenkins. No. 157,261; July 25.
- Pumping machinery, pumps, vacuum pumps, and air and gas compressors. Worthington Pump and Machinery Corporation. No. 157,250; July 25.
- Pumps and meters, Fluid-measuring. St. Louis Pump & Equipment Company. No. 157,287; July 25.
- Pumps for gasoline and oil, Measuring. Guarantee Liquid Measure Company. No. 157,260; July 25.
- Punch presses. Reliance Die and Stamping Company. No. 157,279; July 25.
- Pyjamas, robes, and combination sets of pyjamas and robes. Stadium Underwear Co. No. 157,208; July 25.
- Pyrophoric igniters. Chastern, Inc. No. 157,026; July 25.
- Railway spikes. Railway Lock-Spike Co. No. 157,181; July 25.
- Ranges, Steel coal, wood, and combination of coal and gas and wood and gas. Eureka Steel Range Co. Nos. 157,053-4; July 25.
- Razor-blade-stropping holders, Safety-. J. J. Lochman. No. 157,136; July 25.
- Razor-strop dressing. John M. McVoy. No. 157,143; July 25.
- Razors, safety razors, safety-razor blades. American Safety Razor Corporation. No. 156,986; July 25.
- Rivets. Edwin B. Stimpson Company. No. 157,291; July 25.
- Rubber and leather in combination, Heels of. Nova Heel Manufacturing Co. No. 157,162; July 25.
- Rubber belting and hose. Manhattan Rubber Mfg. Co. No. 157,144; July 25.
- Rubber heels. Hood Rubber Company. No. 157,103; July 25.
- Rubber patches, Sheet-. United States Sales Corporation. No. 157,232; July 25.
- Rubber soles and heels. Essex Rubber Company. No. 157,052; July 25.
- Salt. Ohio Salt Company. No. 157,164; July 25.
- Salve, Medicinal. Vick Chemical Company. No. 157,235; July 25.
- Saws. W. T. Grant. No. 157,259; July 25.

- Seats, Water-closet. N. O. Nelson Manufacturing Company. No. 157,275; July 25.
- Shade, Window. Lapsley & Bros. Company. No. 157,272; July 25.
- Sheets, pillowcases and bolster cases, Bed. Royle Craven Company. No. 157,036; July 25.
- Shirt and drawers, Combination sport. Rothschild & Sons. No. 157,194; July 25.
- Shirts. Greenbaum, Weil & Michels. No. 157,084; July 25.
- Shirts. Rauh Bros. & Co. No. 157,182; July 25.
- Shirts, Dress and negligee. Herzfeld-Phillipson Company. No. 157,096; July 25.
- Shirts, Men's and boys'. North Bros. & Co. No. 157,160; July 25.
- Shirts, Negligee and work. Sigmund Eisner Company. No. 157,048; July 25.
- Shirts, Work. Rombro Brothers. No. 157,193; July 25.
- Shock absorbers for automobiles. Marvel Shock Absorber Corporation. No. 57,145; July 25.
- Shoes. Brown Shoe Company. No. 157,012; July 25.
- Shoes. Brown Shoe Company. No. 157,014; July 25.
- Shoes. Ideal Shoe Manufacturing Company. No. 157,109; July 25.
- Shoes. Nathan, Morphy & Co. No. 157,159; July 25.
- Shoes. Sachs Shoe Manufacturing Company. No. 157,197; July 25.
- Shoes and boots. Excelsior Shoe Company. No. 157,056; July 25.
- Shoes and leather shoe soles, Leather. R. K. L. Company. No. 157,189; July 25.
- Shoes andoccasins. Mater-Mack Co. No. 157,148; July 25.
- Shoes, Ladies' and misses' leather. Krippendorf-Dittmann Co. No. 157,123; July 25.
- Shoes, Leather. J. S. Hall's Sons. No. 157,092; July 25.
- Shoes, Leather and fabric. Wm. Hahn & Co. No. 157,093; July 25.
- Shoes, Leather, rubber fabric, or the combination thereof. International Shoe Co. No. 157,113; July 25.
- Shoes, Men's and boys'. Craddock-Terry Company. No. 157,035; July 25.
- Shoes, Men's leather. Brown Shoe Company. No. 157,013; July 25.
- Shoes of leather, rubber, fabric, etc. F. A. Butler. No. 157,020; July 25.
- Shoes, slippers, boots, etc., Leather, fabric, etc. Wichert & Gardiner. No. 157,246; July 25.
- Slippers and shoes, Leather. T. W. Morrison. No. 157,154; July 25.
- Slippers, Bedroom. S. J. Hill. No. 157,098; July 25.
- Slippers, Fabric. I. Goldberg. No. 157,076; July 25.
- Soap. W. W. Waddell. No. 157,294; July 25.
- Soap, Toilet. J. J. Bradley. No. 157,256; July 25.
- Solder, Metal and aluminum. M. J. White. No. 157,296; July 25.
- Soles, Cut leather. R. S. Lawrence. No. 157,125; July 25.
- Spark plugs, Metal terminals or electrodes for. H. M. Fredriksen. No. 157,068; July 25.
- Sponge and washrag, Combined. G. Fierheller. No. 157,062; July 25.
- Steel, Sheet. Bethlehem Steel Company. No. 157,003; July 25.
- Steels in bars, billets, and shapes, Tool. Carpenter Steel Company. No. 157,023; July 25.
- Stilts. Sterling Toy Works. No. 157,290; July 25.
- Stoves, Gas and coal. Wincroft Stove Works. No. 157,248; July 25.
- Stoves, ranges, furnaces, etc. Independent Stove Company. No. 157,110; July 25.
- Suit, Union. Chalmers Knitting Company. No. 157,025; July 25.
- Suits, Boys' and children's play. Tauber, Lipton & Co. No. 157,216; July 25.
- Suits, coats, trousers, knickerbockers, etc., Men's, young men's and boys'. Siebler Clothes Company. No. 157,205; July 25.
- Suits, dresses, coats, etc., and boys' suits, Women's, misses', and children's. Strouse-Baer Co. No. 157,212; July 25.
- Sweaters. Sunbeam Knitting Mills. No. 157,213; July 25.
- Syringes, Hydrometer. Scranton Glass Instrument Company. No. 157,282; July 25.
- Tacks, nails, and rivets. Atlas Tack Corporation. No. 157,252; July 25.
- Tacks, Thumb. Twistout Thumb Tack Company. No. 157,228; July 25.
- Tappets, Oil-cushion. Soenksen-Wolff-Spiers Company. No. 157,286; July 25.
- Tarpaulin, wagon covers, and tents. H. Wenzel Tent & Duck Company. No. 157,243; July 25.
- Tents and covers, Canvas. Barnett Canvas Goods & Bag Co. No. 156,995; July 25.
- Tents, awnings, paulins, tarpaulins, and detached waterproof wagon covers. Clifton Mfg. Company. No. 157,028; July 25.
- Textile fabric. M. W. Grinnell. No. 157,088; July 25.
- Thread and yarn. Flock Manufacturing Company. No. 157,064; July 25.
- Threads and yarns of silk and artificial silk. A. H. Rice Company. No. 157,187; July 25.
- Threads, Artificial silk. Brainerd & Armstrong Company. No. 157,011; July 25.
- Ties and scarfs. L. Auerbach. Nos. 156,991-2; July 25.
- Ties, cravats, and four-in-hand ties. Friedman Bros. & Son Neckwear Company. No. 157,071; July 25.
- Tire carriers. Trexler Company. No. 157,224; July 25.
- Tires and tubes, Automobile. Austin, Nichols & Co. No. 156,993; July 25.
- Tires for automobiles, Rubber. Tuscan Tire & Rubber Company. No. 157,227; July 25.
- Tires, Rubber. Hudson Tire Co. No. 157,106; July 25.
- Tires, Rubber. B. Lichtig & Son Inc. No. 157,129; July 25.
- Tires, Rubber automobile. Fisk Rubber Company. No. 157,063; July 25.
- Toilet preparations, Certain. M. Pasquier. No. 157,277; July 25.
- Tonic, General medicinal. Medio Distributing Co. No. 157,273; July 25.
- Toy aeroplanes. P. Pierce. No. 157,175; July 25.
- Toys, Electrical. Meccano Limited. No. 157,149; July 25.
- Tractors and carburetors. Horace Keane Aeroplanes, Inc. No. 157,118; July 25.
- Trousers. H. & S. Manufacturing Company. No. 157,105; July 25.
- Trousers. D. M. Oberman Mfg. Co. No. 157,163; July 25.
- Trousers and pants. Dadd & Ladd Trouser Company. No. 157,039; July 25.
- Trousers, skirt, coat, gown, and suit hangers. Hinchey Manufacturing Company of Indiana. No. 157,099; July 25.
- Truck bodies. L. W. Robinson. No. 157,192; July 25.
- Trucks and trailers, Motor. Traylor Engineering & Manufacturing Company. No. 157,223; July 25.
- Typewriters, typewriter repair parts, etc., Rebuilt. A. H. Post. No. 157,179; July 25.
- Undergarments and sanitary pantalettes, Women's. I. B. Kleinert Rubber Company. No. 157,120; July 25.
- Underwear. Cotton States Hosiery Mills. No. 157,034; July 25.
- Underwear, children's dresses, Women's and children's. Birkenfeld, Strauss & Co. No. 157,004; July 25.
- Uniforms and hats, men's suits, hats, etc., Naval and army. American Naval Uniform Co. No. 156,985; July 25.
- Vanilla flavoring compounds. Muller-Houseman Company. No. 157,156; July 25.
- Vehicles, Commercial motor. John I. Thornycroft & Co. No. 157,220; July 25.
- Vending machines. Barr Company. No. 156,996; July 25.
- Watch blanks. Fabrique d'Horlogerie de Fontainemelon S. A. Nos. 157,058-9; July 25.
- Water, nonalcoholic beverages, and sirups for making same, Distilled. H-2-O Still Company. No. 157,090; July 25.
- Waterproof clothing. Alligator Oil Clothing Company. No. 156,981; July 25.
- Waterproofed textile fabrics. Edward McConnell & Co. No. 157,140; July 25.
- Wool, Shetland floss, worsted, mohair, alpaca, etc. O. Seiss. Nos. 157,202-3; July 25.
- Yarns and acetylcellulose thread, Fancy. Grasselli Chemical Company. No. 157,081; July 25.
- Yarns and artificial and thrown silk, Mercerized and cotton. U. S. Yarn Co. No. 157,233; July 25.
- Yarns, warps, flosses, threads, and tinsel threads. J. R. Montgomery Company. No. 157,115; July 25.

ALPHABETICAL LIST OF LABELS.

"Ben-Gay." (For Medicinal Preparation for Rheumatism, Gout, Neuralgia.) T. Seltzer. No. 24,762; July 25.
 "Bungalow Brand." (For Salad Dressing.) F. Hallberg. No. 24,748; July 25.
 "Cataract Brand." (For Fresh Fruit.) Western New York Co-Operative Ass'n. Inc. No. 24,767; July 25.
 "Cream of Bran." (For Cereals.) Phospho Food Co. Inc. No. 24,760; July 25.
 "Cre-Cal-Co." (For Containers of a Solution Decausticated Creosote.) G. M. Callaway. No. 24,746; July 25.
 "Dextro Malto No. 3." (For Infants' Food.) Mead Johnson & Co. No. 24,755; July 25.
 "Home Made Orange Marmalade." (For Orange Marmalade.) J. Hartmann. No. 24,749; July 25.
 "Hudson Refined Pure Lard." (For Pure Lard.) Joseph Stern & Sons, Inc. No. 24,765; July 25.
 "KB Handy Shoe Shiner Cloth." (For Paper-Box Container and on Label Affixed to Cloth.) J. A. Callahan. No. 24,745; July 25.
 "King Midas." (For Toasted Wheat Cereal.) Shane Bros. & Wilson Co. No. 24,763; July 25.
 "L. Napoletana." (For Peeled Tomatoes.) P. Pastene & Co. Inc. No. 24,759; July 25.
 "Long Branch." (For Saline Flakes.) Pacific Coast Biscuit Company. No. 24,758; July 25.
 "Old Style Purest & Best Malt Extract." (For Malt Extracts.) Old Style Malt Extract Co. No. 24,757; July 25.
 "Phospho." (For Nut-Brown Meal.) Phospho Food Co. Inc. No. 24,761; July 25.
 "Pineland." (For Apples.) Spokane Valley Growers Union. No. 24,764; July 25.

"Pure Honey." (For Honey.) S. F. Von Schuetz. No. 24,766; July 25.
 "Queen." (For Cartons of Japanese Hull-less Popcorn.) Northrup, King & Co. No. 24,756; July 25.
 "Richmond Maid." (For Baking Powder.) The Laird Manufacturing Co. Inc. No. 24,754; July 25.
 "Rogue River Valley Fruit Crater Lake Brand." (For Packages Containing Fresh Deciduous Fruits.) C. A. Knight. No. 24,753; July 25.
 "Staffnote." (For Boxes Containing Player Rolls for Piano Player.) Billings Player Roll Company. No. 24,744; July 25.
 "Straiton's Liniment." (For Bottles Containing Liniment.) F. P. Barber and R. K. Kirby. No. 24,743; July 25.
 "Sombrero." (For Cantaloupes.) Withers Brothers. No. 24,769; July 25.
 "Tastee." (For Cantaloupes.) R. De Gioglio. No. 24,747; July 25.
 "Widlar's Genuine." (For Mocha and Java Coffee.) Widlar Co. No. 24,768; July 25.
 "Zanzibar-Carbon Crystal Laundry Blue." (For Containers Holding Zanzibar-Carbon Crystal Laundry Blue, a Blue Used for Laundry Purposes.) B. Heller & Company. No. 24,750; July 25.
 "Zanzibar-Carbon Non-Sour Blue." (For Containers Holding Zanzibar-Carbon Non-Sour Blue, a Blue Used for Laundry Purposes.) B. Heller & Company. No. 24,751; July 25.
 "Zanzibar-Carbon Combination Laundry Blue." (For Containers Holding Zanzibar-Carbon Combination Laundry Blue, a Blue Used for Laundry Purposes.) No. 24,752; July 25.

ALPHABETICAL LIST OF PRINTS.

"Ampico." (For Advertising Purposes for Pianos, Piano Players, and Player Pianos.) American Piano Company. No. 6,223; July 25.
 "Cream of Wheat." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,224; July 25.
 "Heinz Vinegars Every Drop Awakens Flavor." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 6,226; July 25.
 "Hypex." (For Advertising Purposes for Sleeve Valves for Internal-Combustion Engines.) W. W. Tompkins. No. 6,234; July 25.
 "Knitted Outerwear deserves the preference." (For Advertising Purposes for Knitted Outerwear.) Sweater & Knitted Textile Publicity Bureau, Inc. No. 6,233; July 25.
 "Little Simon." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 6,225; July 25.

"No Home Complete Without a Sum-Vil Dry Mop." (For Advertising Purposes for Mops.) Somerville Brush Company. No. 6,231; July 25.
 "What is she saying?" (For Advertising Purposes for Sealpax Athletic Underwear.) The Sealpax Co. No. 6,230; July 25.
 "What is the matter with your hair?" (For Advertising Purposes for Shampoo.) The Palmolive Company. No. 6,229; July 25.
 "The Pie in the Pieplate." (For Advertising Purposes for Pies.) Holbrook Pie Baking Co. Inc. Nos. 6,227-8; July 25.
 "University." (For Advertising Purposes for Cigars.) J. C. Stowell Company. No. 6,232; July 25.
 "Vin-Rou." (For Advertising Purposes for a Fruit Beverage.) Western Fruits Products Co. No. 6,235; July 25.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acetylsalicyloyltheobromine. E. Merck. No. 161,850; July 25.
 Ammonia. Vernon Manufacturing Co. Nos. 158,270-1; July 25.
 Antiseptic and mouth wash, Liquid. Hancock-Smiths, Incorporated. No. 161,775; July 25.
 Antiseptic liquid. A. Kantar. No. 160,710; July 25.
 Aprons, girdle supporters, and baby pants, Household. A. Stein & Company. No. 148,624; July 25.
 Bagging, manufactured from jute fiber. American Manufacturing Company. No. 139,493; July 25.
 Ball markers, Golf. Hup Mfg. Co. No. 163,151; July 25.
 Balls, Golf. Faultless Rubber Company. No. 163,866; July 25.
 Banjos. Van Eps-Burr Corporation. No. 162,077; July 25.
 Banjos. Vega Company. Nos. 161,708-9; July 25.
 Barium sulphate used in X-ray diagnosis, Preparation of. E. Merck. No. 161,851; July 25.
 Beds, Wall. Rip Van Winkle Wall Bed Company. No. 139,429; July 25.
 Beverage and sirup for making same, Nonalcoholic, noncereal, maltless. L. F. Furcotte. No. 165,467; July 25.

Beverage and sirups used in making same, Fruit. Queen City Bottling Company. No. 158,333; July 25.
 Beverage and sirups used in preparation of same, Non-intoxicating, nonalcoholic, noncereal. Pittsfield Coca Cola Bottling Corporation. No. 165,413; July 25.
 Beverage sold as a soft drink. C. F. Martin. No. 164,254; July 25.
 Beverages, Nonalcoholic maltless. Modern Beverage Company. No. 163,592; July 25.
 Bleaching compounds. Carpenter-Morton Company. No. 161,033; July 25.
 Bleaching compounds, powders, and fluids, dyestuffs, etc. Societe Anonyme des Produits du Lion Noir. No. 146,087; July 25.
 Bleaching compounds, powders, and fluids, dyestuffs, etc. Societe Anonyme des Produits du Lion Noir. No. 146,089; July 25.
 Boots and shoes. E. J. Bliss. No. 145,545; July 25.
 Boots and shoes, Leather. J. W. Carter & Co. No. 160,232; July 25.
 Boots and shoes, Leather. J. W. Carter & Co. No. 160,234; July 25.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

xxxii

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

- Boots, shoes, slippers. Thomas G. Plant Company. No. 160,776; July 25.
- Brilliantine. E. Burnham, Inc. No. 160,473; July 25.
- Candy. W. I. Booth. No. 159,402; July 25.
- Capsules, Cold. Valley Remedy Co. No. 161,659; July 25.
- Carbonizing compounds. Lecar Carbon Company. No. 161,889; July 25.
- Carburetors, thermostatic controls for internal-combustion engines, etc. Beneke & Kropf Manufacturing Company. No. 151,076; July 25.
- Carpeting and tapestry rugs, Stair. W. T. Grant Company. No. 160,759; July 25.
- Charcoal of the highest adsorptive power ready for injections, Suspension of animal. E. Merck. No. 161,852; July 25.
- China clay, and plain and colored bases for dressing, whitening, and fulling compounds. E. & V. King & Company. No. 162,880; July 25.
- Ciders and fruit juices. Duffy-Mott Company. No. 165,065; July 25.
- Cigarettes. Falk Tobacco Company. Nos. 164,878-9; July 25.
- Cigarettes. L. L. Post. No. 155,446; July 25.
- Cigarettes. J. Wix. No. 164,283; July 25.
- Cigarettes, Egyptian. S. Benaderet. No. 164,220; July 25.
- Cigars. De Nobili Cigar Co. No. 165,275; July 25.
- Cigars. R. Hasel Cigar Co. No. 163,799; July 25.
- Cigars. T. A. Henderson. No. 161,435; July 25.
- Cigars. S. Reese. No. 163,947; July 25.
- Cleaning preparation for cleaning fabric and like goods, Dry-. W. M. Ladd. No. 153,816; July 25.
- Coats, overcoats, trousers, and knickerbockers. B. Ark. No. 156,731; July 25.
- Coffee. McInnes-Walker Co. No. 158,879; July 25.
- Color-stripping and dye-removing compound. John Campbell & Co. No. 161,110; July 25.
- Cotton goods, linens, madras, and other cotton fabrics. S. K. Watts. No. 161,869; July 25.
- Cotton piece goods. Fort Dummer Mills. Nos. 164,413-14; July 25.
- Cotton piece goods. New England Commercial Co. No. 161,506; July 25.
- Cotton textiles in the piece. N. Erlanger, Blumgart & Co. Nos. 162,538-9; July 25.
- Cream, Face. G. C. Wilson. No. 161,079; July 25.
- Dehydrooxycodineonchlorhydrate. E. Merck. No. 161,847; July 25.
- Doilies. Perlmann, Schal & Stern. No. 163,053; July 25.
- Dresses, suits, coats, etc., Women's, girls', and misses'. Aarons & Homes. No. 157,874; July 25.
- Dresses, suits, wraps, and fur pieces, Ladies'. Harry Collins, Inc. No. 157,985; July 25.
- Dyes, dyestuffs, and colors. National Aniline & Chemical Company. No. 148,510; July 25.
- Eaves-trough hangers, conductor hooks and fasteners. L. D. Berger. No. 157,596; July 25.
- Electrical apparatus, machines, and supplies. Power Supply Company. No. 145,645; July 25.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 138,036; July 25.
- Fabrics in the piece, Pile. Sidney Blumenthal & Co. No. 164,226; July 25.
- Farriers' and cobblers' tools. Champion Tool Co. No. 152,416; July 25.
- Farriers' tools. Champion Tool Company. No. 152,415; July 25.
- Farriers' tools. Champion Tool Company. No. 152,418; July 25.
- Finger rings. F. E. Ashmun Company. No. 163,078; July 25.
- Fishing lines. Cortland Line Co. Nos. 164,391-4; July 25.
- Fishing lines. Cortland Line Co. Nos. 164,396-8; July 25.
- Floor coverings, Felt-base. Ringwalt Works, Inc. No. 162,582; July 25.
- Fruits, Fresh citrus. L. K. Small Company. No. 159,059; July 25.
- Fumigating materials, fungicides, insecticides. Gasselli Chemical Company. No. 160,703; July 25.
- Garters, neckties, collars, hose, etc. A. C. Fischer. No. 130,822; July 25.
- Gelatin. E. C. Rich, Inc. No. 159,105; July 25.
- Ginghams in the piece. Deep River Mills, Inc. No. 153,875; July 25.
- Glare and storm shields and windshields and wind-deflecting wings. Dickinson & Co. No. 164,238; July 25.
- Groceries and grocery specialties. Bert McDowell Co. No. 159,042; July 25.
- Hair nets. S. Glemby's Sons Co. No. 164,419; July 25.
- Hair nets. S. Glemby's Sons Co. No. 164,424; July 25.
- Hair nets. Schneider, Battinus & Simon. No. 164,968; July 25.
- Hair nets, Human. Frazar & Company. No. 164,898; July 25.
- Hair ribbons. Frankenthaler and Frankenthaler. No. 158,675; July 25.
- Hair tonic. M. Shaffer Company. No. 161,208; July 25.
- Hair tonics. G. W. Dunleavy. No. 161,038; July 25.
- Handkerchiefs, Thomas Carter & Sons, Inc. No. 162,916; July 25.
- Hosiery. Dreifus, Tichner & Eckstein. No. 140,430; July 25.
- Hosiery. C. Iskowitz. No. 158,394; July 25.
- Hosiery, knitted and woven underwear and undersuits. A. Boehm. No. 157,208; July 25.
- Hosiery, underwear, knit goods, gloves, shirts, etc. Bennett & Wedeen Inc. No. 155,951; July 25.
- Inhalers, remedy for catarrh, hay fever, etc., Combination. Miller-Fatland Novelty Co. No. 161,931; July 25.
- Ink and ink powder, Writing. C. A. Black. No. 156,439; July 25.
- Ink, Ink pigments, and the vehicles used with pigments for compounding inks. Printing. Alchemic Gold Company, Incorporated. No. 162,095; July 25.
- Inks, Printing. Queen City Printing Ink Company. No. 160,427; July 25.
- Ink, Writing. Super Saftee Ink Corporation. No. 157,238; July 25.
- Insecticides. Hooker Electrochemical Company. Nos. 161,836-7; July 25.
- Knickers. Kenilworth Manufacturing Co. No. 156,745; July 25.
- Knit goods in the piece. Wiley-Bickford-Sweet Co. No. 157,051; July 25.
- Knitted, cloth, and woven underwear. Davenport Hosiery Mills. No. 158,469; July 25.
- Knitted fabrics. Argo Fabrics Corporation. No. 162,094; July 25.
- Magazine, Monthly. T. Levish. No. 162,023; July 25.
- Magazine, Musical. Musical Courier Company. No. 160,361; July 25.
- Malt, Barley. Independent Products Co. No. 158,927; July 25.
- Matches, Friction. T. A. Palmer. No. 162,445; July 25.
- Medicated compound for female ailments. W. M. Konikov. No. 161,133; July 25.
- Medicinal preparation for relief of colds, la grippe, etc. Beach Chemical Company. No. 161,956; July 25.
- Medicinal preparations for skin diseases, infected wounds, etc. Lingner-Werke Aktiengesellschaft. No. 162,121; July 25.
- Medicinal preparation for treatment of nerves, stomach, liver, etc. A. Arend Drug Co. No. 149,532; July 25.
- Medicinal preparation for use as an aphrodisiac and metabolic stimulant. Eli Lilly & Company. No. 161,365; July 25.
- Medicinal preparation for use as a sedative and hypnotic. Eli Lilly & Company. No. 161,367; July 25.
- Medicinal preparation of a sedative character. R. G. Seel. No. 161,942; July 25.
- Medicinal preparation recommended as a pain alleviator. Schering & Glatz, Inc. No. 161,902; July 25.
- Music exercises, Vocal. H. W. Geiger. No. 157,835; July 25.
- Musical instruments, String, wind, and percussion. Vega Company. No. 164,845; July 25.
- Needles, Hand sewing. Julius Berbecker & Sons, Inc. No. 161,166; July 25.
- Needles, Hand sewing. A. J. Hague & Co. Nos. 159,263-4; July 25.
- Noodles. Tri-Star Noodle Factory. No. 159,061; July 25.
- Oil gauges. J. O. Middleworth. No. 151,765; July 25.
- Ointment for colds, croup, etc. J. F. Ketels. No. 161,318; July 25.
- Ointment for eczema, ulcers, itch, sores, ringworm, etc. A. Smith. No. 160,976; July 25.
- Ointment for treating sores, burns, etc., Antiseptic healing. C. E. Palmer. No. 161,793; July 25.
- Ointment for treatment of burns, scalds, etc. L. Vermeulen. No. 145,481; July 25.
- Ointment, Medicinal. McLeod & Niesz. No. 159,324; July 25.
- Organs, Orchestral pipe. Robert-Morton Company. No. 161,704; July 25.
- Packaging machinery, Mechanical. Pneumatic Scale Corporation. No. 142,357; July 25.
- Paper. C. P. Lesh Paper Company. Nos. 164,329-30; July 25.
- Paper. C. P. Lesh Paper Company. Nos. 164,332-3; July 25.
- Paper and envelope, Combined writing. R. W. Smith. No. 162,711; July 25.
- Paper and envelopes, etc. Paul M. Adams Co. No. 164,688; July 25.
- Paper clamps and clips, thumb tacks, pin tickets, and ring clips. Noesting Pin Ticket Company. No. 164,659; July 25.
- Paper, Cover. Marvellum Company. Nos. 164,709-10; July 25.
- Paper, envelopes, etc., Writing and note. Macniven and Cameron Limited. No. 164,335; July 25.
- Paper, Toilet. Linton & Scott. No. 150,970; July 25.
- Paper, Toilet. White-Washburne Company. Nos. 164,739-41; July 25.
- Paper, Wrapping. Blake, McFall Company. No. 161,295; July 25.
- Paper, Writing, printing, and book. C. P. Lesh Paper Company. No. 163,093; July 25.
- Paper, writing tablets, blank books, etc. F. C. Strype. No. 162,067; July 25.

- Peanuts, Salted. California Peanut Company. No. 159,010; July 25.
- Pencils. Brown & Bigelow. Nos. 164,486-7; July 25.
- Pens and fountain pens. Esterbrook Steel Pen Mfg. Co. No. 155,741; July 25.
- Perfume, face powder, talcum, lip sticks, etc. G. T. Hastings. Nos. 162,000-1; July 25.
- Petrolatum, petrolatum greases and oils. Standard Oil Company, (Incorporated in New Jersey). No. 161,279; July 25.
- Pharmaceutical preparations for faulty digestion. Comer, Fetterly & Co. No. 161,719; July 25.
- Phonograph needles. Tonepen Company. No. 161,015; July 25.
- Phonograph records. Cameo Record Corporation. No. 159,143; July 25.
- Physical and meteorological instruments, registering instruments, etc. Scintilla. No. 136,044; July 25.
- Piano rolls, Player-. Plaza Music Co. No. 164,771; July 25.
- Picture films, Motion-. Buck Mix Productions, Inc. No. 160,655; July 25.
- Piece goods of silk, cotton, wool, and hairs. Bianchini, Férier. Nos. 165,005-7; July 25.
- Pills having laxative and tonic properties. Trust Estate of Adolph C. Meyer. No. 161,462; July 25.
- Plns, hooks and eyes, and snap fasteners. N. Solow. No. 154,999; July 25.
- Pipes, cigar and cigarette holders, pipe cleaners, etc., Smoking. Dasco Import Co. No. 163,215; July 25.
- Polish, Metal. Sum-Shine Polish Co. No. 149,363; July 25.
- Powder and perfumes, Face. Lay Rité Laboratory. No. 161,841; July 25.
- Powder, Foot. C. E. Rogers. No. 150,290; July 25.
- Powder preparation for use as a body deodorant. O. S. Rimer. No. 161,896; July 25.
- Powder puffs. J. H. Calisher. No. 161,974; July 25.
- Powders, almond lotion, cold cream, etc., Face and talc. Rogers Brothers. No. 161,453; July 25.
- Preparation for controlling stubborn hair. Liquid. R. Odell & Sons Company. No. 161,940; July 25.
- Preparation for the treatment of coughs, bronchitis, croup, etc. E. F. White. No. 159,301; July 25.
- Preparation for the treatment of the hair and scalp. G. I. Sampson. No. 161,946; July 25.
- Preparation for treatment of lung trouble. J. B. Nichols. No. 159,280; July 25.
- Preparation used for gargling. P. J. Schlichtmann. No. 161,757; July 25.
- Publication, Monthly. W. M. Van Sant. No. 155,649; July 25.
- Publication, Monthly. Dog World Publishing Co. No. 161,823; July 25.
- Publications, Periodical. Hatfield Electric Company. No. 163,497; July 25.
- Pulp stones for wood-pulp-working machines, machinery, and tools, and parts thereof. Smallwood Stone Company. No. 154,387; July 25.
- Pumps, Rotary and centrifugal. J. B. Jensen. No. 144,526; July 25.
- Radioreceiving apparatus. Martin Schweibold and Jacob Schweibold. No. 160,156; July 25.
- Ranges and stoves, Gas and coal. Tappan Stove Company. No. 161,393; July 25.
- Rats, mice, and vermin. Chemical exterminators for. T. D. Kain. No. 143,095; July 25.
- Razor strops. Herzfeld-Phillipson Company. No. 126,029; July 25.
- Razors, shears, and files. E. T. Goldberg. No. 146,433; July 25.
- Recipes. S. M. Morgan. No. 161,443; July 25.
- Refrigerators and ice boxes. Johnson-Randall Co. No. 163,400; July 25.
- Rubber heels. Armstrong Cork Company. No. 160,040; July 25.
- Rubber heels for shoes. Holtite Manufacturing Co. No. 159,799; July 25.
- Salts, medicinal bath salts, nasal douche, gargle, and cattle salts. Biozone Syndicate Limited. No. 154,474; July 25.
- Sheeting, Cotton. American Company for International Commerce. No. 161,102; July 25.
- Shirting in the piece, Cotton. Burton Bros. & Co. No. 160,531; July 25.
- Shirts. Banner Shirt Co. No. 145,054; July 25.
- Shoe creams. Henry Skantze & Co. No. 158,016; July 25.
- Shoes. Morse & Burt Co. No. 161,441; July 25.
- Shoes, Leather. T. D. Barry Company. No. 161,023; July 25.
- Shoes, Leather. A. T. Lewis & Son Dry Goods Company. No. 161,927; July 25.
- Silk, cotton, and fiber textiles and mixtures thereof. J. Kolke. No. 163,338; July 25.
- Silk, cotton and silk, and cotton goods in the piece. Oriental Silk Printing Company. No. 162,438; July 25.
- Silk in the piece. Jansen & Pretzfeld. No. 164,646; July 25.
- Silk piece goods. H. R. Mallinson & Co. No. 164,934; July 25.
- Silk, satin, and crêpe piece goods. Hess, Goldsmith & Co. No. 162,406; July 25.
- silver compound, Methylene-blue. E. Merck. No. 161,849; July 25.
- silver preparation combined with sodium cholate as protective colloid, Colloidal. E. Merck. No. 161,848; July 25.
- Sirup for beverage purposes, Barley-malt. M. Finkelstein. No. 163,685; July 25.
- Sirup for beverage purposes, Barley-malt. M. Finkelstein. No. 163,687; July 25.
- Sirup for beverage purposes, Hop and malt. M. Finkelstein. No. 163,686; July 25.
- Sirup for cough and catarrh. F. E. Loës. No. 162,120; July 25.
- Sirup, Malt. Bear Hops, Malt & Extract Co. No. 161,717; July 25.
- Sirups for making soft drinks, Nonalcoholic, maltless fruit. Logan-Johnson, Ltd. No. 158,189; July 25.
- Size for use in connection with woolen warps and for finishing textile piece goods. Liverpool Borax Co. No. 161,135; July 25.
- Skirts, Outer. Goldstein & Levin. No. 150,105; July 25.
- Soap, Laundry. Los Angeles Soap Co. No. 148,745; July 25.
- Soap products. Kendall Products Corporation. No. 159,659; July 25.
- Soaps, scrubbing compounds, metal polish, etc. Midland Chemical Laboratories. No. 151,954; July 25.
- Souvenir or favor containers. B. Shackman & Co. No. 164,127; July 25.
- Steering wheels for motor vehicles. Fold-O-Lock Steering Wheel Mfg. Corp. No. 163,868; July 25.
- Stucco. Atlas Portland Cement Company. No. 163,075; July 25.
- Suits, Men's and boys'. Alexander Wolff & Co. No. 155,286; July 25.
- Sulphates, chlorides, and acetates of metals, refined tar, perfumes, etc. Thomas Hubback & Son. No. 123,579; July 25.
- Sweaters, bathing suits, caps, and gloves. Lamb Knit Goods Co. No. 158,480; July 25.
- Tablet, Liver. H. L. Asselin. No. 160,842; July 25.
- Tablets, Laxative. David H. Fulton & Bro. Nos. 161,725-6; July 25.
- Talking and dictating machines, and records for talking machines. Vox-Schallplatten- und Sprechmaschinen-Aktiengesellschaft. No. 160,167; July 25.
- Talking machines and phonograph needles, Needles for. General Phonograph Corporation. No. 164,105; July 25.
- Talking machines and phonographs. Sonora, Inc. No. 160,779; July 25.
- Tapes, elastic webbing, dress belting, Binding. Kranish Bros. No. 160,554; July 25.
- Textile fabrics, Worsted and woolen. Holden-Leonard Company. No. 165,019; July 25.
- Tobacco and cigarettes, Smoking. John Sinclair Ltd. No. 162,143; July 25.
- Tobacco, cigarettes, cigars, and snuff. J. Wix. No. 165,248; July 25.
- Tobacco, Smoking and chewing. Excelsior Tobacco Co. No. 141,0004; July 25.
- Toilet and pharmaceutical preparations. Auld Acquaintance Co. No. 159,334; July 25.
- Toilet preparations. J. M. Aboussleman. No. 161,344; July 25.
- Toilet specialties. Misner Manufacturing Co. No. 162,032; July 25.
- Tooth paste. United States Dental Specialty Co. No. 161,288; July 25.
- Toothbrushes. Decoater Company. No. 162,921; July 25.
- Toy catapults and targets. C. R. Stewart. No. 161,154; July 25.
- Toy flying machine. B. Carlisle. No. 150,729; July 25.
- Toys, Mechanical. Wolverine Supply and Manufacturing Company. Nos. 160,222-4; July 25.
- Umbrellas and parasols. C. Stein. No. 158,159; July 25.
- Undergarments, negligees, and corsets, Ladies' silk. Samek & Lobel. No. 156,602; July 25.
- Vehicle apparatus having means adapted to be lowered into sewer catch basins. Otterson Auto-Eductor Co. No. 144,0414; July 25.
- Velocipedes and go-carts for children. International Toy Company. No. 160,018; July 25.
- Watchcases and watches. D. Bernstein. No. 159,998; July 25.
- Weeds, Chemical products to be used for the destruction of noxious. Chemical Products Company. No. 150,591; July 25.
- Windshield wipers of the squeegee type. Ternstedt Manufacturing Company. No. 163,898; July 25.
- Worsted, woolen, worsted and cotton, woolen and cotton, and worsted and silk piece goods. Louis Walther Manufacturing Company. No. 164,736; July 25.
- Yarns, Embroidery. Kemp & Beatley, Inc. No. 125,959; July 25.

CLASSIFICATION OF PATENTS

ISSUED JULY 25, 1922.

NOTE.—First number=class, second number=subclass, third number=patent number.

1—	15: 1, 423, 778	33—	3: 1, 423, 859	74—	14: 1, 423, 972	119—	53: 1, 423, 915	152—	14: 1, 423, 963	191—	42: 1, 423, 582
2—	9: 1, 423, 546		64: 1, 423, 809		1, 423, 973		61: 1, 423, 552		16: 1, 423, 692	60. 1:	1, 423, 575
	54: 1, 424, 013		138: 1, 424, 085		17: 1, 423, 614		142: 1, 423, 706		32: 1, 424, 101	192—	53: 1, 423, 631
	102: 1, 423, 543		178: 1, 423, 542		26: 1, 423, 827	120—	18: 1, 423, 603		33: 1, 423, 976	107:	1, 423, 833
	106: 1, 423, 829		1, 424, 082		1, 424, 027		74: 1, 423, 910		1, 423, 977	113:	1, 424, 036
	122: 1, 423, 668		180: 1, 424, 067		50: 1, 423, 531	121—	137: 1, 423, 688	153—	1. 5: 1, 423, 984	193—	29: 1, 423, 986
4—	5: 1, 423, 634		190: 1, 423, 903		51: 1, 423, 528		1, 423, 797		13: 1, 423, 586	40:	1, 423, 872
	1, 423, 888		206: 1, 423, 529		54: 1, 424, 045	122—	292: 1, 423, 540		80: 1, 423, 545	194—	1: 1, 424, 074
5—	35: 1, 424, 022	34—	5: 1, 423, 818		56: 1, 423, 602	421:	1, 423, 826	154—	2: 1, 424, 020	196—	21: 1, 423, 527
	13: 1, 423, 954		24: 1, 423, 728		81: 1, 424, 081	123—	31: 1, 423, 705		10: 1, 423, 870		1, 423, 716
	41: 1, 423, 804		26: 1, 423, 800		R. 15, 424		59: 1, 423, 858		12: 1, 424, 134	26:	1, 423, 709
	55: 1, 423, 623	36—	42: 1, 423, 787		108: 1, 423, 615		73: 1, 423, 578		14: 1, 423, 929		1, 423, 710
	1, 423, 664	37—	11: 1, 424, 093		1, 423, 616		74: 1, 423, 680		16: 1, 423, 837		1, 423, 712
	1, 424, 089		27: 1, 423, 676		109: 1, 423, 943		143: 1, 424, 056		1, 423, 838	197—	80: 1, 423, 687
	58: 1, 423, 663	40—	2: 1, 423, 763		1, 423, 672	149:	1, 423, 672		43: 1, 423, 517	126:	R. 15, 426
	63: 1, 423, 665		11: 1, 423, 655	75—	1: 1, 423, 922		1, 423, 734	155—	9: 1, 423, 946	198—	12: 1, 423, 609
6—	4: 1, 423, 883		20: 1, 423, 938		45: 1, 423, 847		1, 423, 735		28: 1, 423, 661		15: 1, 423, 533
9—	11: 1, 423, 561		27: 1, 423, 557	81—	41: 1, 423, 774		175: 1, 423, 718		51: 1, 423, 855		21: 1, 423, 856
	17: 1, 423, 633		105: 1, 423, 920		121: 1, 424, 069		188: 1, 423, 576		73: 1, 423, 995		26: 1, 423, 816
	22: 1, 423, 739		132: 1, 423, 641		139: 1, 423, 723		197: 1, 424, 002		101: 1, 423, 508		52: 1, 423, 649
10—	123: 1, 423, 945		133: 1, 423, 648		165: 1, 423, 793	126—	30: 1, 423, 612		138: 1, 423, 951		72: 1, 423, 854
12—	10: 1, 423, 613	42—	69: 1, 423, 836		1, 423, 803		39: 1, 423, 961		143: 1, 423, 594		118: 1, 423, 878
	47: 1, 423, 743	43—	61: 1, 423, 715	83—	6: 1, 423, 867		73: 1, 424, 041		1, 424, 031		154: 1, 423, 765
	136: 1, 423, 740	45—	2: 1, 423, 953		26: 1, 424, 026		85: 1, 423, 651	157—	1: 1, 423, 875	176:	1, 424, 090
15—	8: R. 15, 423	134:	1, 423, 714		44: 1, 423, 783	127—	9: 1, 423, 810	158—	36: 1, 423, 764		1, 424, 126
	24: 1, 423, 844	46—	24: 1, 423, 900		73: 1, 423, 853		1, 423, 928		1, 423, 913	213:	1, 423, 698
	122: 1, 423, 992		35: 1, 423, 566		1, 424, 102	128—	295: 1, 423, 537		75: 1, 423, 650	232:	1, 423, 990
16—	19: 1, 423, 700		40: 1, 424, 015		80: 1, 423, 751		318: 1, 423, 866		115: 1, 423, 750	200—	47: 1, 423, 624
	21: 1, 424, 028		45: 1, 423, 618		88: 1, 423, 777	129—	16: 1, 424, 080	161—	10: 1, 424, 079	90:	1, 423, 907
	55: 1, 423, 784		1, 423, 819	85—	23: 1, 424, 038	130—	5: 1, 424, 060	164—	22: 1, 423, 630	204—	5: 1, 423, 584
	85: 1, 423, 521		56: 1, 424, 038		50: 1, 424, 008		22: 1, 424, 119		29: 1, 423, 917		11: 1, 423, 815
	120: 1, 424, 052	47—	18: 1, 423, 906	87—	9: 1, 423, 512	131—	2: 1, 423, 620		38: 1, 424, 012		17: 1, 423, 686
	168: 1, 423, 812		30: 1, 423, 697	88—	16. 8: 1, 423, 697		12: 1, 423, 869		48: 1, 423, 798	29:	1, 424, 144
	191: 1, 423, 513		39: 1, 423, 659		17: 1, 423, 948		R. 15, 422		1, 424, 005	32:	1, 423, 658
18—	27: 1, 423, 608	48—	66: 1, 424, 077	19. 5:	1, 423, 770		51: 1, 423, 507		73: 1, 424, 050	208:	38: 1, 423, 994
	38: 1, 423, 761		107: 1, 424, 142		24: 1, 423, 997		1, 423, 538		82: 1, 423, 828	210—	36: 1, 423, 657
	50: 1, 423, 525		126: 1, 423, 975		47: R. 15, 425	132—	7: 1, 424, 030		90: 1, 423, 690		58: 1, 423, 970
	1, 423, 526		173: 1, 424, 042		27: 1, 424, 125		14: 1, 423, 679	166—	113: 1, 423, 738		67: 1, 423, 583
	53: 1, 423, 760		180: 1, 423, 579	89—	1: 1, 423, 757		22: 1, 423, 644	167—	18: 1, 423, 625	211—	2: 1, 424, 017
19—	48: 1, 424, 021	49—	2: 1, 423, 957		40: 1, 424, 105		51: 1, 423, 606		3: 1, 424, 111		14: 1, 423, 585
	1: 1, 423, 949	51—	29: 1, 424, 035	90—	12: 1, 423, 511	78. 5:	1, 423, 745	170—	10: 1, 423, 514		16: 1, 424, 054
	40: 1, 424, 043	53—	3: 1, 423, 547		18: 1, 423, 563	134—	26: 1, 423, 821		158: 1, 423, 964		27: 1, 423, 861
	42: 1, 423, 629	55—	39: 1, 423, 865	91—	51: 1, 423, 567	137—	70: 1, 424, 001		170: 1, 423, 717		28: 1, 423, 845
	69: 1, 423, 857	56—	259: 1, 423, 999	92—	46: 1, 423, 555		75: 1, 424, 057	171—	97: 1, 424, 003		32: 1, 423, 701
22—	201: 1, 423, 654	443:	1, 424, 122		73: 1, 423, 969		77: 1, 423, 902		119: 1, 423, 518		34: 1, 423, 921
	224: 1, 423, 590	58—	116: 1, 424, 092	93—	36: 1, 424, 018		1, 423, 831		1, 423, 839	212—	59: 1, 423, 724
23—	1: 1, 423, 766	59—	9: 1, 424, 029	95—	88: 1, 424, 062		1, 423, 988		1, 423, 926	213—	64: 1, 423, 522
	1, 423, 767	61—	6: 1, 423, 640	96—	5: 1, 423, 587		1, 424, 140		321: 1, 423, 996	214—	18: 1, 424, 010
	11: 1, 423, 719		49: 1, 423, 884	97—	30: 1, 424, 128	139—	7: 1, 423, 619		337: 1, 424, 070		81: 1, 423, 887
	1, 423, 720		70: 1, 423, 923	98—	33: 1, 423, 814		72: 1, 423, 524	172—	274: 1, 423, 958	215—	31: 1, 423, 560
	1, 423, 721	62—	43: 1, 423, 532	99—	5: 1, 423, 830		81: 1, 423, 729		281: 1, 423, 959		49: 1, 423, 592
13: 1, 423, 605		64—	24: 1, 423, 850		10: 1, 424, 132		85: 1, 423, 670	175—	183: 1, 423, 622		99: 1, 423, 973
	1, 423, 711		1, 423, 851	101—	165: 1, 423, 589	141—	11: 1, 423, 548		356: 1, 424, 016		108: 1, 424, 076
	1, 424, 006		36: 1, 423, 950		232: 1, 423, 792	143—	52: 1, 423, 621		36: 1, 423, 956	217—	47: 1, 423, 596
21: 1, 423, 799		49:	1, 423, 666	102—	26: 1, 423, 551		68: 1, 424, 039	176—	314: 1, 423, 601		48: 1, 423, 863
22: 1, 423, 510		96:	1, 423, 577		39: 1, 424, 112	144—	26: 1, 423, 967	177—	6: 1, 423, 737		125: 1, 424, 009
24: 1, 423, 753		97:	1, 424, 051	103—	44: 1, 423, 768		1, 423, 981	178—	9: 1, 423, 898	218—	15: 1, 423, 626
	1, 424, 137	65—	57: 1, 424, 040		60: 1, 423, 937		1, 423, 988	179—	18: 1, 423, 897	219—	8: 1, 423, 914
	28: 1, 423, 978	66—	4: 1, 424, 072		80: 1, 423, 935		1, 423, 989		1, 423, 899		19: 1, 423, 806
24—	3: 1, 424, 139		9: 1, 424, 025		97: 1, 423, 759	297:	1, 423, 933		91: 1, 423, 930		63: 1, 423, 742
	12: 1, 424, 096	68—	3: 1, 423, 762		148: 1, 423, 852		303: 1, 424, 034		171: 1, 424, 065		76: 1, 424, 088
	40: 1, 423, 782		30: 1, 423, 823		179: 1, 424, 004	145—	31: 1, 423, 843		9. 2: 1, 423, 642	220—	8: 1, 423, 673
	67: 1, 423, 520	70—	14: 1, 423, 656		202: 1, 423, 724		76: 1, 423, 722		12: 1, 423, 962		1, 424, 099
	88: 1, 423, 813		16: 1, 423, 825	105—	174: 1, 423, 895		11: 1, 423, 960		17: 1, 423, 758		24: 1, 423, 822
115: 1, 423, 785		31:	1, 423, 509		177: 1, 423, 947		1, 424, 133		1, 423, 940		85: 1, 424, 068
	1, 423, 868	46:	1, 423, 553		292: 1, 423, 752		14: 1, 424, 032		1, 423, 941		86: 1, 424, 037
	131: 1, 423, 530		1, 424, 136	106—	10: 1, 424, 120		15: 1, 423, 891		26: 1, 423, 731	221—	102: 1, 424, 104
	134: 1, 424, 084		54: 1, 423, 691		14: 1, 423, 985		38: 1, 423, 669		50: 1, 423, 736		121: 1, 423, 932
	200: 1, 423, 639		90: 1, 424, 106		34: 1, 423, 909		40: 1, 423, 909		27: 1, 423, 802	224—	29: 1, 423, 699
	241: 1, 423, 974		108: 1, 424, 046	109—	1: 1, 423, 652		1, 424, 121		1, 423, 832		127: 1, 423, 944
	248: 1, 424, 103		113: 1, 423, 840	113—	1: 1, 423, 693		47: 1, 423, 539	181—	10: 1, 423, 925	228—	40: 1, 424, 115
	249: 1, 423, 678		128: 1, 423, 955		38: 1, 423, 617		25: 1, 423, 746		117: 1, 423, 704	229—	7: 1, 424, 127
25—	121: 1, 423, 708	129:	1, 423, 682		82: 1, 423, 591	151—	1: 1, 423, 549		121: 1, 423, 677		46: 1, 424, 071
	128: 1, 423, 983	71—	1: R. 15, 417		111: 1, 423, 581		5: 1, 423, 580		13: 1, 423, 677		47: 1, 423, 936
27—	17: 1, 423, 848	72—	1: 1, 423, 779		126: 1, 423, 786	1. 2:	1, 423, 873	184—	13: 1, 423, 677		68: 1, 423, 653
28—	59: 1, 424, 100		101: 1, 423, 991	114—	235: 1, 423, 576		8: 1, 423, 748		187—		85: 1, 424, 024
	67: 1, 423, 864		116: 1, 423, 879		21: 1, 424, 044		1, 423, 733		52: 1, 423, 846		92. 9: 1, 423, 886
	71: 1, 424, 124		122: 1, 423, 939	115—	32: 1, 423, 905		1, 424, 086	188—	5: 1, 423, 901	230—	11: 1, 423, 993
	84: 1, 423, 795	73—	30: 1, 423, 597		43: 1, 423, 588						

236—	12: 1, 423, 880	244—	12: 1, 423, 681	251—	94: 1, 424, 083	265—	62: 1, 423, 660	287—	54: 1, 423, 927	296—	81: 1, 423, 908
238—	4: 1, 423, 893		14: 1, 424, 055		167: 1, 424, 094	268—	20: 1, 423, 817		93: 1, 423, 788		116: 1, 423, 916
	12: 1, 423, 703		15: 1, 424, 130	254—	103: 1, 423, 834	271—	2: R. 15, 419		103: 1, 423, 849		145: 1, 423, 685
	91: 1, 423, 600		19: 1, 423, 636		109: 1, 423, 671		61: 1, 423, 835	292—	60: 1, 424, 107	298—	19: 1, 423, 638
	207: 1, 423, 534		21: 1, 423, 611		139: 1, 423, 971		79: 1, 423, 952		113: 1, 423, 773	299—	86: 1, 423, 989
	330: R. 15, 421		1, 423, 789		190: 1, 423, 550		87: 1, 423, 647		205: 1, 423, 562	301—	11: 1, 424, 019
	347: 1, 423, 702	29: 1, 423, 610			192: 1, 424, 075	274—	1: 1, 423, 523		228: 1, 424, 048		17: 1, 423, 574
240—	1: 1, 423, 882		1, 424, 049	255—	19: 1, 424, 109		1, 424, 023		322: 1, 423, 881		20: 1, 424, 063
	2: 1, 423, 755		1, 424, 143		64: 1, 423, 713		27: 1, 424, 087	293—	25: 1, 423, 604		21: 1, 424, 078
	7: 1, 424, 047	30: 1, 424, 066			1: 1, 424, 097		35: 1, 423, 707		55: 1, 423, 570		31: 1, 423, 942
	8. 5: 1, 423, 911	245—	8: 1, 423, 918	257—	26: 1, 423, 662	278—	8: 1, 423, 682		1, 423, 571		33: 1, 423, 811
	85: 1, 423, 646	246—	3: 1, 423, 689		187: 1, 423, 794		43: 1, 424, 064		1, 423, 572		34: 1, 424, 073
	1, 423, 683	41: 1, 423, 862			246: 1, 423, 695	279—	97: 1, 423, 595		1, 423, 573		37: 1, 423, 694
	1, 424, 095	428: 1, 423, 965		260—	108: 1, 423, 980	280—	14: 1, 424, 011		1, 423, 874		1, 423, 568
	123: 1, 423, 645	247—	3: 1, 423, 807		122: 1, 424, 138		23: 1, 423, 732		1, 423, 894		44: 1, 423, 519
241—	8: 1, 424, 110	248—	2: 1, 423, 643	262—	9: 1, 424, 113		33. 5: 1, 424, 129		1, 424, 014		63: 1, 423, 598
	9: 1, 423, 684		41: 1, 423, 726		1, 424, 114		33. 44: 1, 423, 796	294—	17: 1, 423, 781	302—	42: 1, 424, 053
	12: 1, 423, 749	250—	27: 1, 424, 091	265—	17: 1, 423, 841		89: 1, 423, 820		60: 1, 423, 775	303—	6: 1, 424, 007
242—	55: 1, 424, 116		34: 1, 423, 635		1, 423, 842	282—	27: 1, 423, 808	295—	50: 1, 423, 877		36: 1, 424, 033
	99: 1, 423, 516		1, 423, 924		39: 1, 423, 885	283—	58: 1, 423, 744	296—	28: 1, 423, 931	304—	17: 1, 423, 998
	121: 1, 423, 824		38: 1, 424, 141		45: 1, 424, 108	285—	142: 1, 423, 754		45: 1, 424, 081		34: 1, 423, 725
244—	1: 1, 423, 987	251—	27: 1, 423, 966		55: 1, 423, 772	287—	14: 1, 423, 535		63: 1, 423, 912	305—	13: 1, 424, 098

